

TRANSPORTATION CABINET
Department of Highways
Frankfort, Kentucky 40622

PROPOSAL NO. _____
PROJECT CODE NO. 03-0176

LETTING OF MARCH 28, 2003
Sealed Bids will be received in the
Division of Contract Procurement
and/or the Auditorium located on the
1st Floor of the State Office
Building until 10:00 A.M., EST,
on MARCH 28, 2003. Bids will
be publicly opened and read at 10:00
A.M., EASTERN STANDARD TIME.

PROJECT IDENTIFICATION AND DESCRIPTION:

FD GR 03 0000081, PIKE COUNTY

Flood Repair.

(12)

THE SUCCESSFUL BIDDER ON THIS PROJECT MAY REQUEST A WORK ORDER WITH AN EFFECTIVE DATE PRIOR TO JUNE 15, 2003. THE REQUEST MUST BE IN WRITING TO THE DEPARTMENT. A WORK ORDER ISSUED AT THE REQUEST OF THE CONTRACTOR WILL BE WITH THE DISTINCT UNDERSTANDING THAT PAYMENT FOR ANY WORK PERFORMED ESTIMATES MAY BE DELAYED UNTIL JULY 15, 2003. A WORK ORDER WILL BE ISSUED JUNE 15, 2003, FOR THIS PROJECT UNLESS THE BIDDER REQUESTS AN EARLIER WORK DATE.

GEOGRAPHIC COORDINATES:

LATITUDE - 37° 30' NORTH
LONGITUDE - 82° 22' WEST

COMPLETION DATE ESTABLISHED FOR PROJECT: JUNE 30, 2003

LIQUIDATED DAMAGES SEE STANDARD SPECIFICATIONS

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

(Check guaranty submitted: Cashier's Check ☐ Certified Check ☐ Bid Bond ☐)

BID BONDS WHEN SUBMITTED WILL BE RETAINED WITH THE PROPOSAL.

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I	SCOPE OF WORK
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III	EMPLOYMENT, WAGE AND RECORD REQUIREMENTS
IV	INSURANCE
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VI	BID ITEMS
VII	CERTIFICATION

BID..... ☐ PROPOSAL ISSUED TO: _____

SPECIMEN..... ☐ _____
Address City State Zip

PART I

SCOPE OF WORK

1. Project Detail

- | | |
|--|----------|
| a. See Sketches (6 Sheets), Description Summary, Material Summary,
Guardrail Summary and Flood Repair Summary | Attached |
| b. Special Notes Applicable to Project | Attached |
| c. Supplemental Specifications | Attached |
| d. Special Notes & Drawings for Pike County | Attached |

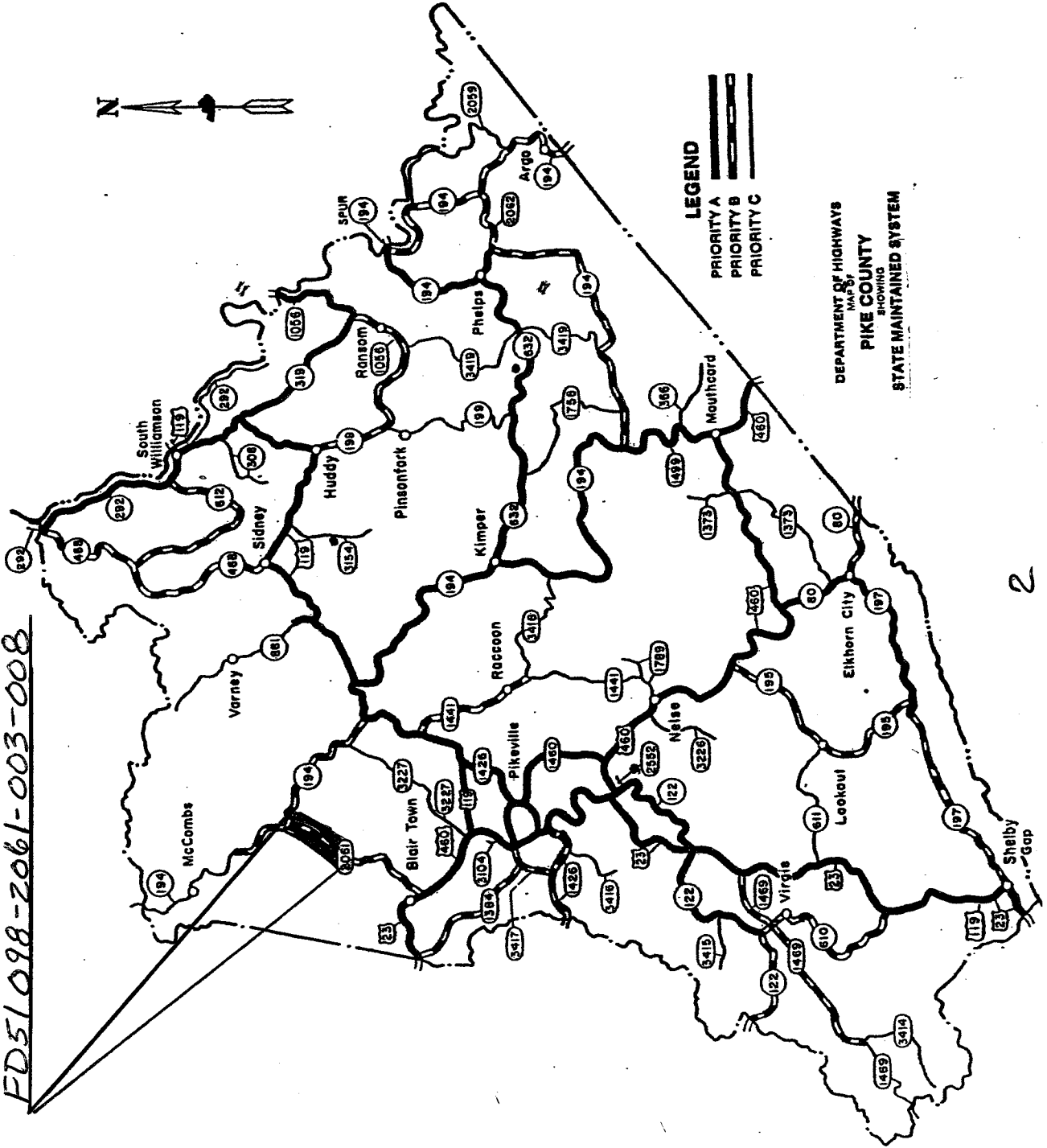
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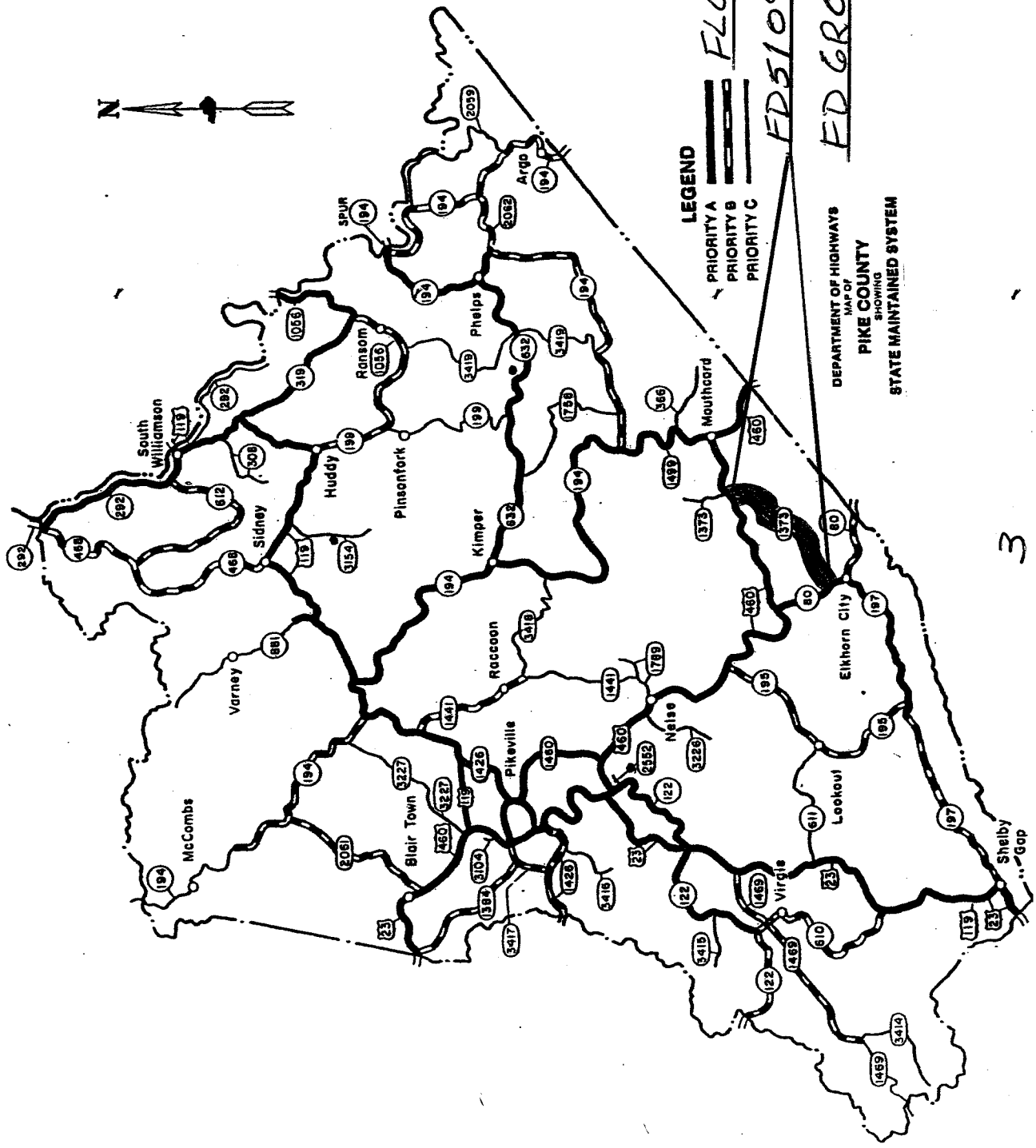
PRIORITY A
PRIORITY B
PRIORITY C

DEPARTMENT OF HIGHWAYS
MAP OF
PIKE COUNTY

FD 6 R 03 0000081
FLOOD REPAIR KY2061

FD51098-2061-003-008





LEGEND

- PRIORITY A
- PRIORITY B
- PRIORITY C

FLOOD REPAIR KY 1373

FD 51098-1373-000-007

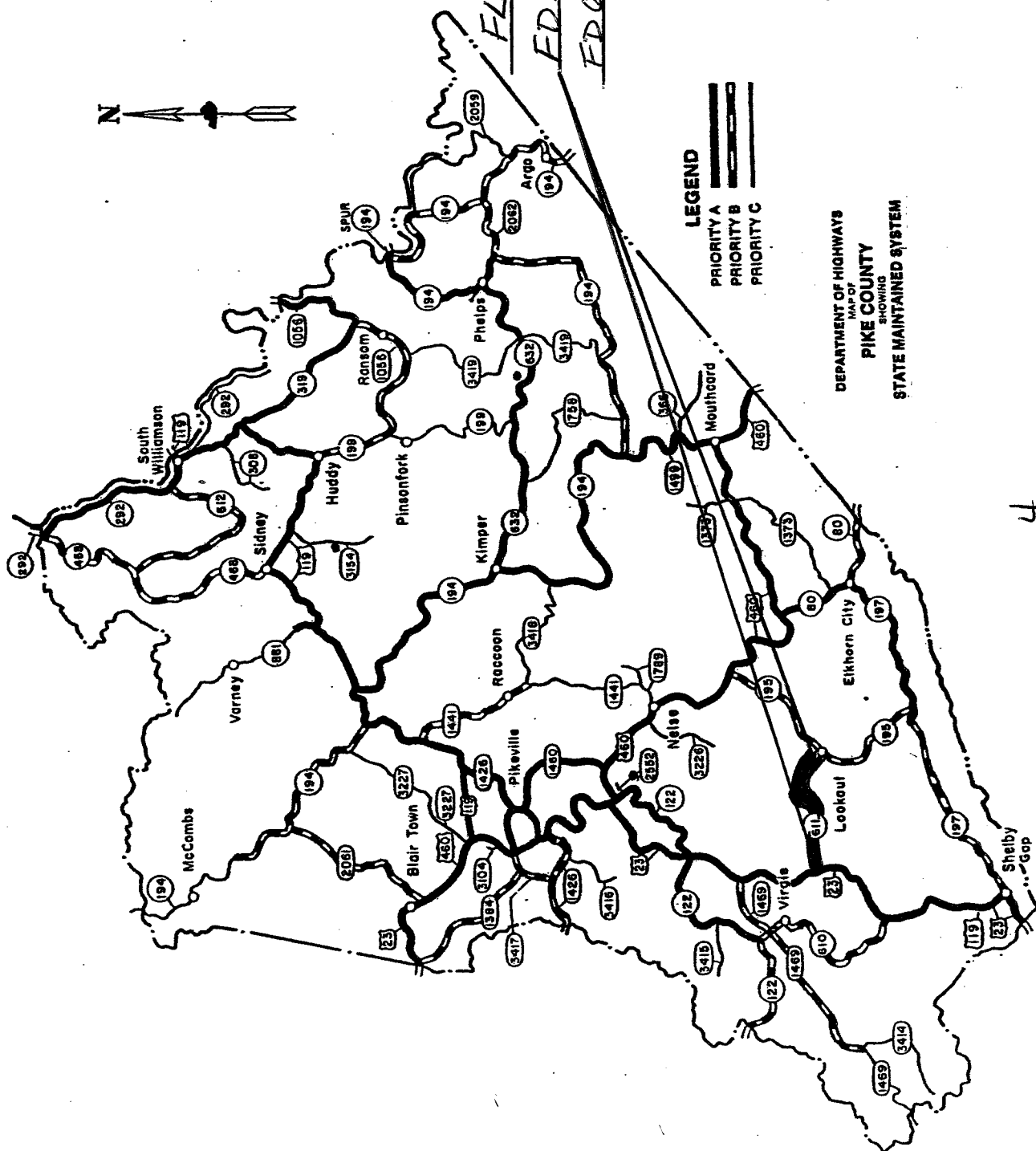
FD 6R03 0000081

DEPARTMENT OF HIGHWAYS
MAP OF
PIKE COUNTY
SHOWING
STATE MAINTAINED SYSTEM

FD51098-0611-000-006
FD6R03 0000081

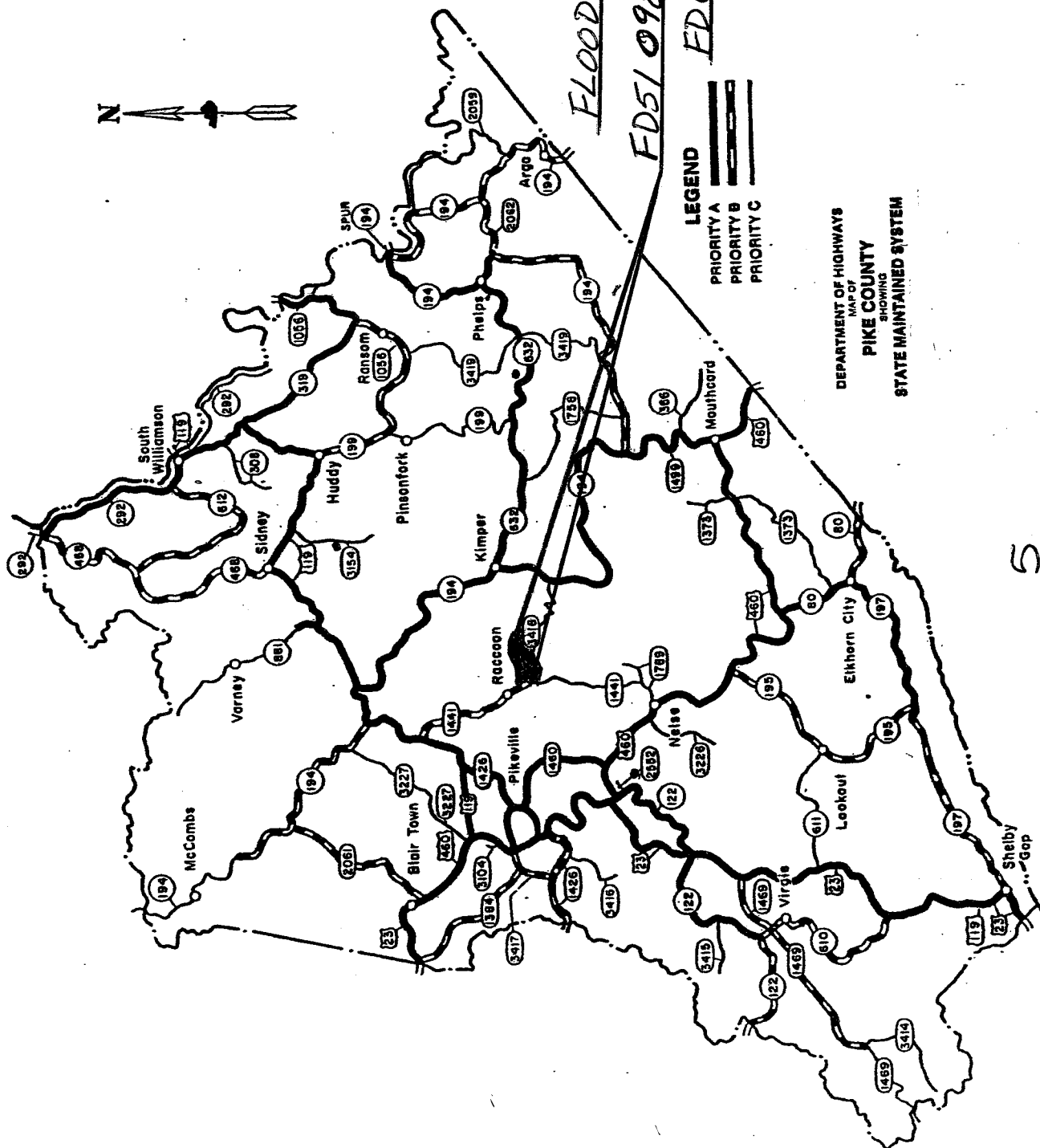
FD 51098-0611-000-006

FD6R030000081



DEPARTMENT OF HIGHWAYS
MAP OF
PIKE COUNTY
SHOWING
STATE MAINTAINED SYSTEM

5



FLOOD REPAIR KY 3418

FD51 098-3418-007-011

FDGR03 0000081

LEGEND

PRIORITY A

PRIORITY B

PRIORITY C

DEPARTMENT OF HIGHWAYS

MAP OF PIKE COUNTY

ДНИМОН

STATE MAINTAINED SYSTEM

COUNTY	PROJECT NUMBER	DESCRIPTION
Pike	FD51 098 2059 000-009	1. The Woodman Road (KY 2059) from KY 194 (MP 0.000) extending northerly to KY 194 (MP 8.030), a distance of 8.030 miles. 17 sites.
Pike	FD51 098 2061 003-008	2. The Cowpen-Caney Creek Road (KY 2061) from Airport Road (MP 3.488) extending northerly to KY 194 (MP 7.173), a distance of 3.649 miles. 7 sites.
Pike	FD51 098 1373 000-007	3. The Beaver Creek Road (KY 1373) from KY 80 (MP 0.000) extending easterly to US 460 (MP 6.706), a distance of 6.706 miles. 17 sites.
Pike	FD51 098 0611 000-006	4. The Caney-Poor Bottom Road (KY 611) from KY 195 (MP 0.000) extending easterly to US 23 (MP 5.993), a distance of 5.993 miles. 21 sites.
Pike	FD51 098 3418 007-011	5. The Raccoon-Ridgeline Road (KY 3418) from Upper Pompey Branch Road (MP 7.985) extending easterly to KY 1441 (MP 10.100), a distance of 2.115 miles. 11 sites.
Pike	FD51 098 1441 001-012	6. The Raccoon-Pompey Raod (KY 1441) from KY 1789 (MP 1.741) extending northerly to US 119 (MP 11.816), a distance of 10.075 miles. 48 sites.

MATERIAL SUMMARY

PROJECT	G/R		R/R		EXCAV		STAKING		DGA		G/R END	
	STEEL W	BEAM	RAILS	DRILLED	CRIBBING	AND	LS	TON	TREAT	TY		
	S F					BACKFILL				7		
	LF		LF		SF	CY				EA		
1	2537.5		30012.0		43485.0	8062.0	1.0	65.0		34		
2	362.5		3303.0		3356.0	625.0	1.0	10.0		12		
3	885.0		9348.0		8155.0	1519.0	1.0	23.0		30		
4	937.5		6088.5		5270.0	985.0	1.0	24.0		34		
5	600.0		2393.0		2736.0	511.0	1.0	15.0		22		
6	2025.0		17869.5		21116.0	3931.0	1.0	52.0		60		
TOTAL	7347.5		69014.0		84118.0	15633.0	6.0	189.0		192.0		

MATERIAL SUMMARY

	G/R TERM	M & C	REMOVE	
	SECT NO.	TRAFFIC	SIGNS	DEBRIS
	1			
PROJECT				
	EA	LS	SF	LS
1		1	150	1
2	2	1	150	
3	4	1	150	
4	8	1	150	
5		1	150	
6	8	1	150	
TOTAL	22.0	6.0	900.0	1.0

FD51 098-2059-000-009
GUARDRAIL SUMMARY
PIKE COUNTY
FDGR 03 0000081

Guardrail Location Site No.	Begin Milepoint	End Milepoint	Guardrail Length (L FT)	Guardrail Terminal Section No. 1 (EACH)	Guardrail End Treatment Type 7 (EACH)
1	0.008	0.020	62.5		2
2	0.176	0.210	175		2
3	1.490	1.524	175		2
4	1.617	1.701	450		2
5	1.734	1.783	262.5		2
6	1.811	1.839	150		2
7	1.975	1.986	62.5		2
8	2.555	2.579	125		2
9	2.856	2.929	387.5		2
10	2.968	2.982	75		2
11	3.000	3.007	37.5		2
12	3.240	3.264	125		2
13	3.280	3.287	37.5		2
14	3.475	3.483	50		2
15	3.802	3.807	25		2
16	3.873	3.878	25		2
17	6.915	6.975	312.5		2
TOTALS			2537.5	0	34

FD51 098-2061-003-008
GUARDRAIL SUMMARY
PIKE COUNTY
FDGR 03 0000081

Guardrail Location Site No.	Begin Milepoint	End Milepoint	Guardrail Length (L FT)	Guardrail Terminal Section No. 1 (EACH)	Guardrail End Treatment Type 7 (EACH)
1	3.554	3.572	100.0		2
2	3.92	3.931	62.5		2
3	4.213	4.22	37.5		2
4	5.515	5.522	37.5		2
5	5.57	5.579	50.0		2
6	5.714	5.717	25.0	2	
7	6.299	6.309	50.0		2
Totals			362.5	2	12

FD51 098-1373-000-007
GUARDRAIL SUMMARY
PIKE COUNTY
FDGR 03 0000081

Guardrail Location Site No.	Begin Milepoint	End Milepoint	Guardrail Length (L FT)	Guardrail Terminal Section No. 1 (EACH)	Guardrail End Treatment Type 7 (EACH)
1	0.663	0.678	75.0		2
2	2.442	2.448	37.5		2
3	2.973	2.984	60.0		2
4	3.357	3.363	37.5		2
5	3.523	3.53	37.5		2
6	3.634	3.653	100.0		2
7	3.789	3.798	50.0		2
8	3.809	3.819	50.0		2
9	3.83	3.842	62.5		2
10	3.848	3.852	25.0	2	
11	4.351	4.356	25.0	2	
12	4.92	4.927	37.5		2
13	4.934	4.949	75.0		2
14	5.058	5.066	50.0		2
15	5.286	5.292	37.5		2
16	5.587	5.602	75.0		2
17	5.961	5.969	50.0		2
TOTALS			885.0	4	30

FD51 098-0611-000-006
GUARDRAIL SUMMARY
PIKE COUNTY
FDGR 03 0000081

Guardrail Location Site No.	Begin Milepoint	End Milepoint	Guardrail Length (L FT)	Guardrail Terminal Section No. 1 (EACH)	Guardrail End Treatment Type 7 (EACH)
1	0.203	0.214	62.5		2
2	0.452	0.466	75		2
3	0.477	0.483	37.5		2
4	0.583	0.596	62.5		2
5	0.682	0.69	37.5		2
6	0.713	0.725	62.5		2
7	0.828	0.834	37.5		2
8	0.838	0.845	37.5		2
9	0.878	0.891	75		2
10	0.939	0.945	37.5		2
11	0.99	0.994	25	2	
12	1.278	1.282	25	2	
13	1.528	1.536	50		2
14	1.857	1.865	50		2
15	1.906	1.91	25	2	
16	4.34	4.351	62.5		2
17	4.703	4.708	25	2	
18	5.185	5.189	25		2
19	5.502	5.51	37.5		2
20	5.523	5.532	50		2
21	5.624	5.631	37.5		2
TOTALS			937.5	8	34

FD51 098-3418-007-011
GUARDRAIL SUMMARY
PIKE COUNTY
FDGR 03 0000081

Guardrail Location Site No.	Begin Milepoint	End Milepoint	Guardrail Length (L FT)	Guardrail Terminal Section No. 1 (EACH)	Guardrail End Treatment Type 7 (EACH)
1	8.98	8.991	62.5		2
2	9.16	9.169	50.0		2
3	9.233	9.248	75.0		2
4	9.493	9.5	37.5		2
5	9.584	9.589	25.0		2
6	9.702	9.715	75.0		2
7	9.744	9.75	37.5		2
8	9.905	9.915	50.0		2
9	9.935	9.947	62.5		2
10	9.968	9.985	87.5		2
11	10.039	10.045	37.5		2
		TOTALS	600.0	0	22

FD51 098-1441-001-012
GUARDRAIL SUMMARY
PIKE COUNTY
FDGR 03 0000081

Guardrail Location Site No.	Begin Milepoint	End Milepoint	Guardrail Length (L FT)	Guardrail Terminal Section No. 1 (EACH)	Guardrail End Treatment Type 7 (EACH)
*15	5.154	5.166	62.5		2
16	5.465	5.472	37.5		2
17	5.577	5.590	75.0		2
18	5.912	5.918	37.5		2
19	6.027	6.031	25.0	2	
20	6.224	6.231	37.5		2
21	6.604	6.613	50.0		2
22	6.650	6.657	37.5		2
23	6.662	6.678	87.5		2
24	6.859	6.882	125.0		2
25	7.005	7.021	87.5		2
26	7.095	7.115	100.0		2
27	7.127	7.138	62.5		2
28	7.193	7.198	25.0	2	
29	7.232	7.243	62.5		2
30	7.320	7.329	50.0		2
31	7.335	7.354	100.0		2
32	7.698	7.701	25.0	2	
33	7.827	7.839	62.5		2
34	7.868	7.876	37.5		2
35	7.931	7.937	37.5		2
36	8.023	8.027	25.0		2
37	8.231	8.246	75.0		2
38	8.262	8.273	62.5		2
39	8.329	8.335	37.5		2
40	8.345	8.374	150.0		2
41	8.564	8.576	62.5		2
42	8.801	8.813	62.5		2

**FD51 098-1441-001-012
GUARDRAIL SUMMARY
PIKE COUNTY
FDGR 03 0000081**

Guardrail Location Site No.	Begin Milepoint	End Milepoint	Guardrail Length (L FT)	Guardrail Terminal Section No. 1 (EACH)	Guardrail End Treatment Type 7 (EACH)
43	9.170	9.173	25.0	2	
44	9.320	9.337	87.5		2
45	10.309	10.315	37.5		2
46	10.331	10.345	75.0		2
47	10.908	10.920	62.5		2
48	11.004	11.010	37.5		2
TOTALS			2,025.0	8	60

***Sites 1 thru 14 do not require guardrail.**

FD51 098-2059-000-009
QUANTITY SUMMARY
FLOOD REPAIR
PIKE COUNTY
FDGR 03 0000081

Site No.	Estimated		Estimated Depth to Rock (L FT)	Number of Rows	RailRoad Rail Spacing (FT)	Repair Length (L FT)	Wall Cribbing Amount (SQ FT)	RailRoad Steel (L FT)	Excavation & Backfill (C YD)
	Begin Milepoint	End Milepoint							
1	0.008	0.020	5	1	3	64	320	330	60
2	0.176	0.210	6	1	3	180	1080	900	200
3	1.490	1.524	15	1	3	180	2700	1980	500
4	1.617	1.701	15	1	3	444	6660	4884	1234
5	1.734	1.783	20	1	3	259	5180	3393	960
6	1.811	1.839	20	1	3	148	2960	1950	549
7	1.975	1.986	20	1	3	59	1180	780	219
8	2.555	2.579	15	1	3	127	1905	1677	353
9	2.856	2.929	20	1	3	386	7720	5031	1430
10	2.968	2.982	20	1	3	74	1480	975	275
11	3.000	3.007	20	1	3	37	740	507	138
12	3.240	3.264	20	1	3	127	2540	1677	471
13	3.280	3.287	20	1	3	37	740	507	138
14	3.475	3.483	20	1	3	43	860	585	160
15	3.802	3.807	20	1	3	27	540	351	100
16	3.873	3.878	20	1	3	27	540	351	100
17	6.915	6.975	20	1	3	317	6340	4134	1175
TOTALS							43,485.0	30,012.0	8,062.0

FD51 098-2061-003-008
QUANTITY SUMMARY
FLOOD REPAIR
PIKE COUNTY
FDGR 03 0000081

Site No.	Begin Milepoint	End Milepoint	Estimated Depth of Cribbing (L FT)	Estimated Depth to Rock (L FT)	Number of Rows	RailRoad Rail Spacing (FT)	Repair Length (L FT)	Wall Cribbing Amount (SQ FT)	RailRoad Steel (L FT)	Excavation & Backfill (C YD)
1	3.554	3.572	15	26	1	3	96	1440.0	1248.0	267.0
2	3.92	3.931	10	26	1	3	59	590.0	780.0	110.0
3	4.213	4.22	10	26	1	3	37	370.0	507.0	69.0
4	5.515	5.522	7	10	1	3	37	259.0	195.0	48.0
5	5.57	5.579	7	10	1	3	48	336.0	240.0	63.0
6	5.714	5.717	6	7	1	3	16	96.0	63.0	18.0
7	6.299	6.309	5	10	1	3	53	265.0	270.0	50.0
TOTALS										3,356.0 3,303.0 625.0

FD51 098-1373-000-007
QUANTITY SUMMARY
FLOOD REPAIR
PIKE COUNTY
FDGR 03 0000081

Site No.	Begin		End	Milepoint	Estimated		Depth to Rock (L FT)	Number of Rows	RailRoad Rail Spacing (FT)	Repair Length (L FT)	Wall Cribbing Amount (SQ FT)	RailRoad Steel (L FT)	Excavation & Backfill (C YD)		
	Milepoint				Depth of Cribbing (L FT)										
1	0.663		0.678		6		15	1	3	80	480	607.5	89		
2	2.442		2.448		8		15	1	3	32	256	247.5	48		
3	2.973		2.984		5		12	1	3	59	295	360	55		
4	3.357		3.363		10		15	1	3	32	320	247.5	60		
5	3.523		3.53		8		15	1	3	37	296	292.5	55		
6	3.634		3.653		10		26	1	3	101	1010	1326	188		
7	3.789		3.798		15		26	1	3	48	720	624	134		
8	3.809		3.819		10		15	1	3	53	530	405	99		
9	3.83		3.842		7		15	1	3	64	448	495	83		
10	3.848		3.852		5		15	1	3	22	110	180	21		
11	4.351		4.356		20		26	1	3	27	540	351	100		
12	4.92		4.927		10		26	1	3	37	370	507	69		
13	4.934		4.949		10		26	1	3	80	800	1053	149		
14	5.058		5.066		10		26	1	3	43	430	585	80		
15	5.286		5.292		10		26	1	3	32	320	429	60		
16	5.587		5.602		10		26	1	3	80	800	1053	149		
17	5.961		5.969		10		26	1	3	43	430	585	80		
TOTALS													8,155.0	9,348.0	1,519.0

FD51 098-0611-000-006
QUANTITY SUMMARY
FLOOD REPAIR
PIKE COUNTY
FDGR 03 0000081

Site No.	Begin Milepoint	End Milepoint	Estimated		Estimated Depth to Rock (L FT)	Number of Rows	RailRoad Rail Spacing (FT)	Repair Length (L FT)	Wall Cribbing Amount (SQ FT)	RailRoad Steel (L FT)	Excavation & Backfill (CYD)
			Depth of Cribbing (L FT)	Depth of Cribbing (L FT)							
1	0.203	0.214	5	10	1	3	59	295.0	300.0	55.0	
2	0.452	0.466	5	10	1	3	74	370.0	375.0	69.0	
3	0.477	0.483	4	10	1	3	32	128.0	165.0	24.0	
4	0.583	0.596	10	26	1	3	69	690.0	897.0	128.0	
5	0.682	0.69	10	26	1	3	43	430.0	585.0	80.0	
6	0.713	0.725	5	15	1	3	64	320.0	495.0	60.0	
7	0.828	0.834	4	10	1	3	32	128.0	165.0	24.0	
8	0.838	0.845	4	8	1	3	37	148.0	156.0	28.0	
9	0.878	0.891	3	8	1	3	69	207.0	276.0	39.0	
10	0.939	0.945	4	8	1	3	32	128.0	132.0	24.0	
11	0.99	0.994	7	15	1	3	22	154.0	180.0	29.0	
12	1.278	1.282	6	15	1	3	22	132.0	180.0	25.0	
13	1.528	1.536	7	15	1	3	43	301.0	337.5	56.0	
14	1.857	1.865	10	12	1	3	43	430.0	270.0	80.0	
15	1.906	1.91	4	10	1	3	22	88.0	120.0	17.0	
16	4.34	4.351	5	12	1	3	59	295.0	360.0	55.0	
17	4.703	4.708	6	12	1	3	27	162.0	162.0	30.0	
18	5.185	5.189	8	15	1	3	22	176.0	180.0	33.0	
19	5.502	5.51	5	12	1	3	43	215.0	270.0	40.0	
20	5.523	5.532	6	12	1	3	48	288.0	288.0	54.0	
21	5.624	5.631	5	10	1	3	37	185.0	195.0	35.0	
TOTALS									5,270.0	6,088.5	985.0

FD51 098-3418-007-011
QUANTITY SUMMARY
FLOOD REPAIR
PIKE COUNTY
FDGR 03 0000081

Site No.	Begin Milepoint	End Milepoint	Estimated Depth of Cribbing (L FT)	Estimated Depth to Rock (L FT)	Number of Rows	RailRoad Rail Spacing (FT)	Repair Length (L FT)	Wall Cribbing Amount (SQ FT)	RailRoad Steel (L FT)	Excavation & Backfill (C YD)
1	8.98	8.991	4	8	1	3	59	236	240	44
2	9.16	9.169	4	5	1	3	48	192	120	36
3	9.233	9.248	4	6	1	3	80	320	243	60
4	9.493	9.5	4	5	1	3	37	148	97.5	28
5	9.584	9.589	5	10	1	3	27	135	135	25
6	9.702	9.715	5	10	1	3	69	345	345	64
7	9.744	9.75	5	10	1	3	32	160	165	30
8	9.905	9.915	4	10	1	3	53	212	270	40
9	9.935	9.947	4	10	1	3	64	256	330	48
10	9.968	9.985	6	7	1	3	90	540	315	100
11	10.039	10.045	6	8	1	3	32	192	132	36
TOTALS									2,392.5	511.0

FD51 098-1441-001-012
QUANTITY SUMMARY
FLOOD REPAIR
PIKE COUNTY
FDGR 03 0000081

Site No.	Begin Milepoint	End Milepoint	Estimated Depth of Cribbing (L FT)	Estimated Depth to Rock (L FT)	Number of Rows	RailRoad Rail Spacing (FT)	Repair Length (L FT)	Wall Cribbing Amount (SQ FT)	RailRoad Steel (L FT)	Excavation & Backfill (C YD)
1	2.687	2.694	10	15	1	3	37	370.0	292.5	69.0
2	3.038	3.042	4	10	1	3	22	88.0	120.0	17.0
3	3.109	3.123	3	8	1	3	74	222.0	300.0	42.0
4	3.524	3.531	7	12	1	3	37	259.0	234.0	48.0
5	3.594	3.600	7	12	1	3	32	224.0	198.0	42.0
6	3.609	3.617	8	15	1	3	43	344.0	337.5	64.0
7	3.657	3.662	10	15	1	3	27	270.0	202.5	50.0
8	3.684	3.695	6	12	1	3	59	354.0	360.0	66.0
9	4.027	4.031	4	10	1	3	22	88.0	120.0	17.0
10	4.131	4.135	7	15	1	3	22	154.0	180.0	29.0
11	4.139	4.142	6	12	1	3	16	96.0	108.0	18.0
12	4.152	4.158	12	17	1	3	32	384.0	280.5	72.0
13	4.204	4.207	5	10	1	3	16	80.0	90.0	15.0
14	4.265	4.287	7	15	1	3	117	819.0	877.5	152.0
15	5.154	5.166	10	26	1	3	64	640.0	858.0	119.0
16	5.465	5.472	10	26	1	3	37	370.0	507.0	69.0
17	5.577	5.590	8	26	1	3	69	552.0	897.0	103.0
18	5.912	5.918	5	26	1	3	32	160.0	429.0	30.0
19	6.027	6.031	10	26	1	3	22	220.0	312.0	41.0
20	6.224	6.231	10	26	1	3	37	370.0	507.0	69.0
21	6.604	6.613	7	12	1	3	48	336.0	288.0	63.0
22	6.650	6.657	8	15	1	3	37	296.0	292.5	55.0
23	6.662	6.678	8	15	1	3	85	680.0	652.5	126.0
24	6.859	6.882	9	10	1	3	122	1,098.0	615.0	204.0
25	7.005	7.021	12	13	1	3	85	1,020.0	565.5	189.0

FD51 098-1441-001-012
QUANTITY SUMMARY
FLOOD REPAIR
PIKE COUNTY
FDGR 03 0000081

Site No.	Begin Milepoint	End Milepoint	Estimated Depth of Cribbing (L FT)	Estimated Depth to Rock (L FT)	Number of Rows	RailRoad Rail Spacing (FT)	Repair Length (L FT)	Wall Cribbing Amount (SQ FT)	RailRoad Steel (L FT)	Excavation & Backfill (C YD)
26	7.095	7.115	8	10	1	3	106	848.0	540.0	158.0
27	7.127	7.138	8	10	1	3	59	472.0	300.0	88.0
28	7.193	7.198	7	8	1	3	27	189.0	108.0	35.0
29	7.232	7.243	8	12	1	3	59	472.0	360.0	88.0
30	7.320	7.329	6	8	1	3	48	288.0	192.0	54.0
31	7.335	7.354	7	9	1	3	101	707.0	459.0	131.0
32	7.698	7.701	10	13	1	3	16	160.0	117.0	30.0
33	7.827	7.839	8	10	1	3	64	512.0	330.0	95.0
34	7.868	7.876	8	10	1	3	43	344.0	225.0	64.0
35	7.931	7.937	8	10	1	3	32	256.0	165.0	48.0
36	8.023	8.027	8	10	1	3	22	176.0	120.0	33.0
37	8.231	8.246	8	13	1	3	80	640.0	526.5	119.0
38	8.262	8.273	8	10	1	3	59	472.0	300.0	88.0
39	8.329	8.335	7	10	1	3	32	224.0	165.0	42.0
40	8.345	8.374	8	13	1	3	154	1,232.0	1,014.0	229.0
41	8.564	8.576	7	10	1	3	64	448.0	330.0	83.0
42	8.801	8.813	8	12	1	3	64	512.0	396.0	95.0
43	9.170	9.173	8	12	1	3	16	128.0	108.0	24.0
44	9.320	9.337	5	7	1	3	90	450.0	315.0	84.0
45	10.309	10.315	15	20	1	3	32	480.0	330.0	89.0
46	10.331	10.345	18	25	1	3	74	1,332.0	937.5	247.0
47	10.908	10.920	15	20	1	3	64	960.0	660.0	178.0
48	11.004	11.010	10	15	1	3	32	320.0	247.5	60.0
Totals									17,869.5	3,931.0

SPECIAL NOTES APPLICABLE TO PROJECT

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT AND MAY BE OBTAINED BY CONTACTING THE DEPARTMENT OF HIGHWAYS, DIVISION OF DESIGN, AT A COST OF \$0.50 PER COPY:

Lane Closure Two-Lane Highway Case I (TTC-100)
Lane Closure Two-Lane Highway Case II (TTC-105)
Shoulder Closure (TTC-135)
Miscellaneous Traffic Control Devices (TTD-100)
Miscellaneous Traffic Control Devices (TTD-105)
Post Splicing Detail (TTD-110)
Arrow Panel (TTD-115)
Typical Guardrail Installations (RBI-001-08)
Typical Guardrail Installations (RBI-002-06)
Steel Beam Guardrail (W-Beam) (RBR-001-11)
Guardrail Components (RBR-005-10)
Guardrail Terminal Sections (RBR-010-05)
Guardrail Posts (RBR-015-04)
Guardrail Posts (RBR-016-04)
Guardrail End Treatment Type 7 (RBR-050-04)
Silt Check Type I -Straw Bales (RDX-200-02)
Silt Check Type II & III -Crushed Stone (RDX-205)
Temporary Silt Fence (RDX-210-02)

2000 SPECIFICATIONS & 2003 STANDARD DRAWINGS

Any reference in the plans or proposal to the *Standard Specifications for Road and Bridge Construction, Edition of 1998*, and *Standard Drawings, Edition of 2000* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2000* and *Standard Drawings, Edition of 2003*.

2001 SUPPLEMENTAL SPECIFICATIONS

The *2001 Supplemental Specifications* to the 2000 Standard Specifications for Road and Bridge Construction shall apply to this project.

PROPOSAL ADDENDA

All Addenda to this proposal must be incorporated into the proposal when the bid is submitted to the Kentucky Department of Highways. Failure to use the correct and most recent bid sheet(s) may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's Highway Bid Program available on the internet web site of the Department of Highways, division of Contract Procurement. (www.kytc.state.us/contract)

The Bidder must download the bid items created from the web site to prepare a bid proposal for submission to the Department. The bidder must insert the completed bid item sheets printed from the Program into the bidder's proposal and submit with the disk created by said program.

JOINT VENTURE BIDDING

Joint Venture bidding is permissible. However, both companies **MUST** purchase a bidding proposal. Either proposal may be submitted but must contain the company names and signatures of both parties where required. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provisions of the act.

ASPHALT BASE PRICE

The Asphalt Base Price shall be \$170.00 (english) as applicable in Section 109.07 of the *2000 Standard Specifications*.

SPECIAL NOTES APPLICABLE TO PROJECT (Continued)

Shoulders-(1632 Sq. Yds.) 2 ' wide on each side.

DGA Base for Shoulders based on 115 lbs./Sq Yd per inch of depth.

Payment for necessary grading and/or shaping of existing shoulders prior to placing of Dense Graded Aggregate Base shall be included in the unit price bid per ton for Dense Graded Aggregate Base.

SPECIAL NOTES APPLICABLE TO PROJECT (CONTINUED)

In order for the Cabinet to maximize the use of its resources more efficiently, the contractor shall, prior to issuance of notice to begin work, submit an anticipated earnings schedule broken down by quarter for the expected life of the contract for any project with a bid over \$10,000,000. The contractor will be provided a spreadsheet to expedite the preparation of this schedule upon award of the contract. No direct payment will be allowed for the preparation and submittal of this schedule.

In the event the Engineer determines that there are inadequate or insufficient road funds available under the contract for the payment of Engineer's estimates for work on the project as they come due, the Engineer may suspend payment for all or a part of the contract. If payment is suspended, the contractor may have the option, with the written agreement of the Engineer, of continuing performance under the contract. If the contractor suspends performance, he shall not resume performance until he receives a back to work notice from the Engineer. In the event that the Engineer suspends payment for all or part of the project as provided herein, the contractor waives any and all right to bring any claim for damages as a result of the suspension or delayed payment.

In the event the Engineer determines that there are inadequate or insufficient road funds available for the payment of Engineer's estimates for work on the project as they come due, the Engineer may at his discretion, by written notice 10 days in advance, terminate all or part of the contract. The Cabinet will remain obligated to pay, as soon as funds are available, all actual items of work performed prior to the contractor's receipt of the notice termination. The contractor shall be entitled to reasonable close out costs attendant to termination of the contract under this provision, but in no event shall the contractor be entitled to more than 10% of the total contract price.

The contractor agrees to all terms and conditions stated above in the event there are inadequate or insufficient funds available under the contract for payment, and contractor further expressly waives any right to assert a claim or bring any form of action against the Cabinet under the contract or pursuant to Kentucky law or regulation, including but not limited to KRS Chapter 45A or KRS Chapter 13B.

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Transportation Cabinet from and against claims, damages, losses, and expenses, including but not limited to attorney's fees, arising out of or resulting from suspension or termination under this section. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person under the contract.

In the event of any inconsistent provisions within this contract with respect to this section and any other section, the provisions of this section shall govern and control.

**Supplemental Specifications to The Standard Specifications
for Road and Bridge Construction, 2000 Edition
(Effective with the March 28, 2003 Letting)**

SUBSECTION:	102.07.01 General.
REVISION:	Replace the first sentence with the following: Submit the Bid Proposal on the forms furnished by the Department including the Highway Bid Program bid item sheets and disk created from the Department's internet web site.
SUBSECTION:	102.07.02 Computer Bidding.
REVISION:	Replace the subsection with the following: Subsequent to ordering a Bid Proposal for a specific project, use the Department's Highway Bid Program on the internet web site of the Department of Highways, Division of Contract Procurement. Download the bid item quantities from the Department's web site to prepare a Bid Proposal for submission to the Department. Insert the completed bid item sheets printed from the Highway Bid Program into the Proposal and submit along with the disk created by said program. In case of a dispute, the Bid Proposal and bid item sheets created by the Highway Bid Program take precedence over any bid submittal. Furthermore the Department takes no responsibility for loss, damage of disks or the compatibility with the bidder's computer equipment or software.
SUBSECTION:	102.08 IRREGULAR BID PROPOSALS.
REVISION:	Add the following to the first set of items: 4) Fails to submit a disk created from the Highway Bid Program
SUBSECTION:	102.08 IRREGULAR BID PROPOSALS.
REVISION:	Replace 1) of the second set of items with the following: 1) when the Bid Proposal is on a form other than that furnished by the Department or printed from other than the Highway Bid Program , or when the form is altered or any part is detached.
SUBSECTION:	103.05 REQUIREMENT OF CONTRACT BOND.
REVISION:	Replace the first sentence of the first paragraph with the following: To be acceptable to the Department, the surety must have a minimum A. M. Best rating of an "A-", be listed on the U.S. Treasury Listing of approved sureties for an amount equal to or greater than the amount of the bond and be an admitted carrier in the Commonwealth of Kentucky. Replace the last sentence of the first paragraph with the following: If at any time during the performance of the Contract the surety company falls below the minimum acceptable requirements, the Contractor shall file a new bond in an amount established by the Commissioner, or his designee, within 14 calendar days of such failure to meet the minimum requirements. Add the following to the end of the subsection: The Department reserves the right to copy the surety on all of its communications with the Contractor concerning the Contractor's performance, or performance deficiencies, on the project and further reserves the right to communicate directly with the surety to inform them of the Contractor's performance, or performance deficiencies, on the bonded project.
SUBSECTION:	108.02 PRECONSTRUCTION CONFERENCE.
REVISION:	Add the following to the first paragraph: Include a plan for updating the schedule. As a minimum, the schedule must be updated whenever a situation arises or event occurs that significantly affects the progress of the work or when the Engineer directs.
SUBSECTION:	109.04.02 Cost-Plus Work.
PART:	F) Overhead.
REVISION:	Add the following new part: F) Overhead. The Department will pay for overhead cost associated with administering the work, not to exceed 5 percent, when the work is done by a Subcontractor.

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SUBSECTION:	112.02.05 Temporary Pavement Markings.
PART:	C) Temporary Striping.
NUMBER:	2) Paint.
REVISION:	Replace with the following: 2) Paint. Conform to Section 842
SUBSECTION:	112.02.05 Temporary Pavement Markings.
PART:	C) Temporary Striping.
NUMBER:	3) Drop on Beads.
REVISION:	Replace with the following: 3) Drop on Beads. Conform to Section 839
SUBSECTION:	112.03.01 General Traffic Control.
PART:	G) Signs.
REVISION:	Replace the first sentence with the following: Completely cover all lettering and symbols on existing, permanent, and temporary signs which do not properly apply to the current traffic phasing, and maintain the covering until the signs are applicable or are removed.
SUBSECTION:	112.03.01 General Traffic Control.
PART:	I) Temporary Traffic Signals.
REVISION:	Replace the MUTCD reference "Section 4B" with "Chapter 4D"
SECTION:	201 STAKING. Delete the section and replace with the following: 201.01 DESCRIPTION. When listed as a bid item, furnish all personnel, equipment, stakes, and hubs necessary to construct the roadway and appurtenant structures to the grade and alignment specified in the Contract. When no bid item is listed, the Department will perform staking. 201.02 MATERIALS AND EQUIPMENT. Reserved. 201.03 CONSTRUCTION 201.03.01 Contractor Staking. Perform all necessary surveying under the general supervision of a Professional Engineer or licensed Land Surveyor. The Department's Engineer will perform the following: 1) Provide adequate referencing of control points to allow prompt re-establishment of the survey centerline, right of way, ramps, crossroads, and frontage roads during construction. 2) Set permanent or temporary bench marks as required. 3) Take any cross sections to verify the accuracy of the original ground information. 4) Take "check sections" to verify that construction is to grade and alignment as specified in the Contract. The Contractor will perform the following: 1) Re-establish the centerline and set such additional points as may be necessary for construction of the project. Verify the accuracy of the horizontal and vertical control as established by the Department's Engineer before beginning construction. 2) Establish clearing lines so that the project may be cleared without violating the limits of the right of way. 3) Set slope stakes right and left of the survey centerline at 50-foot to 100-foot intervals to guide the contractor in constructing the cuts and fills. These stakes are generally set to shoulder grade for fills and ditch grade for cuts. The cut or fill information, slope, and distance from centerline should be on the front face of the stake; the station number should be on the back of the stake. This stake should be guarded with a lath that has the station number written on the side facing the centerline.

**Supplemental Specifications to The Standard Specifications
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revision
continued

- 4) Grade Stakes (Bluetops). Fine grade control will be set to aid the Contractor in establishing the typical sub-grade section. When using conventional transit and chain methods this fine grade control will be established by setting hubs(referred to as blue tops) every 50 feet to the sub-grade section. These blue tops are set to the hundredth of a foot in elevation and are located left and right of pavement centerline, usually at the edge of metal. Bluetops will be set for the top of sub-grade and the top of aggregate base and/or drainage blanket material. Refer to Section 204.03.10 and Section 302.03.06 for construction tolerances of sub-grade and aggregate base or drainage blanket.
- 5) Stake all structures (bridges, culverts, pipe, and other appurtenances) so that they can be built to the proper line and grade as shown on the plans and to perform the function for which they were designed.

201.03.02 Department Staking. The Department's Engineer will set all stakes necessary for the construction of the roadway and appurtenant structures to the proper grade and alignment in accordance with the contract.

201.03.03 Electronic Surveying. The Department encourages the use of new and advanced technology in the construction of its roads and structures. However, the following restrictions apply:

- 1) Tolerances are unchanged. Refer to Section 204.03.10 and Section 302.03.06.
- 2) Sub-grade check sections are to be done every 500 feet in tangent sections and every 100 feet in curves using conventional survey methods to establish bluetops and to verify the correct operation of the electronic equipment.
- 3) The Contractor will submit his electronic data files to the Department's Engineer at the beginning of the project so that the Engineer can reference the data for verification of the field work.

201.04 MEASUREMENT.

201.04.01 Contractor Staking. When listed as a bid item, the Department will measure staking as lump sum. The Department will not measure surveying required to correct any errors or inaccuracies resulting from construction operations for payment.

201.04.02 Department Staking. The Department will not measure quantities for payment. When any stakes are disturbed due to unwarranted negligence of the Contractor, the Department will measure the work required to reset the stakes and deduct the cost from monies due the Contractor.

201.05 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

Code	Pay Item	Pay Unit
2726	Staking	Lump Sum

The Department will consider payment as full compensation for all work required under this section.

SUBSECTION: 204.03.08 Disposal of Wasted Materials.
REVISION: Add the following to the end of the second paragraph:

The Department will pay for the geotechnical investigation and analysis of the proposed waste area when one is requested by the Engineer. Ensure all work is performed by a pre-qualified geotechnical consultant and according to the Department's Geotechnical Manual.

SUBSECTION: 206.04.01 Embankment-in-Place.
REVISION: Add the following:

The Department may make adjustments to embankment-in-place projects when there is actually unanticipated waste on the project. Waste generated by the project phasing will not be considered for adjustment. The Department will make an adjustment for the actual costs incurred by the Contractor.

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SUBSECTION:	208.03.03 Application of Chemical.
PART:	B) Lime.
NUMBER:	3)
REVISION:	Replace the second sentence with the following: Use only when saturated soil conditions exist and the slurry method would worsen the situation or when weather conditions prohibit the use of slurry.
SUBSECTION:	208.03.06 Curing and Protection.
REVISION:	Replace the first sentence of the fourth paragraph with the following: Do not allow any traffic or equipment on the finished surface until 7 days above 40 °F curing is completed or the roadbed cores achieve a minimum strength requirement of 75 psi.
SUBSECTION:	208.04.02 Lime.
REVISION:	Add the following to the end of the second paragraph: When hydrate or quicklime is furnished for dry application, the Department will measure the actual quantity applied to the roadbed.
SUBSECTION:	212.03.03 Permanent Seeding and Protection.
PART:	A) Seed Mixtures for Permanent Seeding.
REVISION:	Replace with the following: A) Seed Mixture for Permanent Seeding. Use seed Mixture No. I, No. III, or as the Contract specifies. Mixture No. I: 75% Kentucky 31 Fescue (<i>Festuca arundinacea</i>) 10% Red Top (<i>Agrostis alba</i>) 5% White Dutch Clover (<i>Trifolium repens</i>) 10% Rygrass, perennial (<i>Lolium perenne</i>) Mixture No. III: 30% Kentucky 31 Fescue (<i>Festuca arundinacea</i>) 15% Red Top (<i>Agrostis alba</i>) 15% Partridge Pea (<i>Cassia fasciculata</i>) 20% Sericea Lespedeza 10% Sweet Clover – Yellow (<i>Melilotus officinalis</i>) 10% Rygrass, perennial (<i>Lolium perenne</i>)
SUBSECTION:	212.03.03 Permanent Seeding and Protection.
PART:	C) Crown Vetch.
REVISION:	Replace the first sentence with the following: Sow crown vetch seed on all areas having a slope 3:1 or steeper and consisting of soil or mixtures of broken rock and soil.
SUBSECTION:	212.03.03 Permanent Seeding and Protection.
PART:	E) Erosion Control Blanket.
REVISION:	Replace the first sentence with the following: Install erosion control blankets in ditches, except those to be paved or rock lined, to a flow depth of 1.5 feet.
SUBSECTION:	213.03.02 Progress Requirements.
REVISION:	Replace the word “may” with “will” in the second sentence of the third paragraph.
SUBSECTION:	213.03.02 Progress Requirements.
REVISION:	Replace the third sentence of the third paragraph with the following: Additionally, the Department will apply a penalty equal to the liquidated damages when all aspects of the work are not coordinated in an acceptable manner within 5 days after written notification.

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SUBSECTION:	214.04 MEASUREMENT.
REVISION:	Replace the second sentence with the following: The Department will not measure fabric when the Contract indicates the fabric is incidental to the work or when the specification for another item requires incidental installation of geotextile fabric.
SUBSECTION:	302.02 MATERIALS.
REVISION:	Add the following: 302.02.03 Mixer. Equip the mixer with a water flow system with a positive cut-off control that will stop the flow of water simultaneously with any stoppage in the flow of aggregate and with valves or other devices that can be easily reset when a change in the rate of flow is desired.
SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
PART:	A)
REVISION:	Replace the first sentence of the second paragraph with the following: Provide a laboratory inspected and qualified according to the Department's Quality Assurance Program for Materials Testing and Acceptance and conforming to the following minimum requirements:
SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
PART:	A)
REVISION:	Replace the fourth paragraph with the following: In addition to the equipment required to perform testing according to the AASHTO standards and Kentucky Methods (KM), equip each laboratory with the following minimum furnishings and equipment, conforming to the applicable specifications, as required for the type of construction specified in the Contract: 1) one workbench, at least 2.5 feet wide by 6 feet long; 2) one desk or table and 2 chairs; 3) a fire extinguisher located near the door; and 4) a first aid kit.
SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
PART:	Between Items "H" and "I"
REVISION:	Insert the following new item: Recordation. Provide an automatic graphic or digital record of the production quantities according to AASHTO M156.
SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
PART:	I) Thermometers.
REVISION:	Delete the third paragraph.
SUBSECTION:	401.02.04 Special Requirements for Continuous Plants.
PART:	B) Weight Calibration of Asphalt Binder and Aggregate Feed.
REVISION:	Add the following new paragraph: When equipped with aggregate weighing devices (belt scales), calibrate each cold feeder, along with the aggregate weighing devices, according to Subsection 401.02.05 A) and B).
SUBSECTION:	402.03.01 Responsibilities.
PART:	B) Setup.
REVISION:	Replace (MSG) with (G_{mm})
SUBSECTION:	402.03.01 Responsibilities.
REVISION:	Add the following: C) Process Control. After the setup period, perform the process control operations of KM 64-426.

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SUBSECTION:	402.03.02 Acceptance.
PART:	A) General.
REVISION:	Add the following: Document and report all acceptance tests on the Asphalt Mixtures Acceptance Workbook (AMAW). Submit the completed AMAW for each lot to the Department within 5 working days after the completion of the lot.
SUBSECTION:	402.03.02 Acceptance.
PART:	C) Setup.
REVISION:	Add the following after the second sentence: For mixtures with a total-project quantity between 500 and 1,000 tons, perform a minimum of one process control test for AC, AV, and VMA, and report the results to the Engineer. Add the following after the seventh sentence: Ensure the adjusted AC remains above the minimums specified in Subsection 403.03.03 C) 2).
SUBSECTION:	402.03.03 Verification.
REVISION:	Replace the first two sentences with the following: For volumetric properties, the Department will perform a minimum of one verification test for AC, AV, and VMA for each lot according to the corresponding procedures as given in Subsection 402.03.02. For specialty mixtures, the Department will perform one AC and one gradation determination per lot according to the corresponding procedures as given in Subsection 402.03.02. However, Department personnel will not perform AC determinations according to KM 64-405.
SUBSECTION:	402.05.02 Asphalt Mixtures and Mixtures with RAP.
PART:	D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.
REVISION:	Replace with the following: The Department will pay as mainline mixture but use a 1.00 pay value for all properties.
SUBSECTION:	402.05.01 Specialty Mixtures.
REVISION:	Add "asphalt mixtures for temporary applications" to the list of defined specialty mixtures.
SUBSECTION:	403.02.05 Release Agent.
REVISION:	Replace with the following: Provide materials conforming to KM 64-422.
SUBSECTION:	403.02.06 Transport Equipment.
REVISION:	Add the following after the first sentence: Do not load trucks that are contaminated with an unapproved release agent. When such contamination is identified after loading, reject the load. In either case, remove the truck and respective driver from the project for the duration of the project.
SUBSECTION:	403.02.09 Small Tools and Portable Equipment.
REVISION:	Add the following at the end of the first paragraph: Do not use an unapproved release agent on any small tools or equipment incidental to the paving operation.
SUBSECTION:	403.03.01 Seasonal and Weather Limitations.
REVISION:	Replace "November 15" with "November 30" throughout the Subsection.
SUBSECTION:	403.03.02 Preparation of Base.
REVISION:	Replace the first sentence of the eighth paragraph with the following: Remove existing Type V markers. Fill the recess and any additional damaged area with compacted asphalt mixture within 24 hours of removal.

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SUBSECTION: 403.03.03 Preparation of Mixture.

PART: A) Mixture Composition.

REVISION: Replace Part A) with the following:

- A) Mixture Composition. Provide the appropriate mixture composition for the specified asphalt mixture, or substitute a higher aggregate type. When substituting a mixture of a higher ESAL class, provide a mixture of no more than one ESAL class higher than the specified asphalt mixture. Conform to the gradation requirements (control points) of AASHTO MP2 for the Superpave mixture. Unless the Engineer authorizes otherwise in writing, use the same type and source of ingredient aggregates and asphalt binder throughout the entire project for each type of mixture. For asphalt surface courses containing 100 percent polish-resistant coarse aggregate, limit the portion of non-polish-resistant fine aggregate retained on a No. 4 sieve to 5 percent of the total combined aggregates.

When using a porous aggregate, increase the asphalt binder content (AC) as needed for asphalt binder absorption by the aggregate.

The following aggregate requirements are listed in order of the highest, Type A, to the lowest, Type D:

- 1) Type A. Provide 100 percent of the coarse aggregate Class A sources. Ensure that 20 percent of the total combined aggregate is Class A polish-resistant fine aggregate.
- 2) Type B. Select either of the 2 following options:
 - a) Provide 100 percent of the coarse aggregate from Class B sources.
 - b) Provide a combined aggregate, retained on the No. 4 sieve, that is a minimum of 50 percent from any Class A polish-resistant aggregate source except those identified as "Not Permitted as the polish-resistant portion of Class B blends." Submit all Class B blends to the Department for review.

For Option a) or b) above, ensure one of the following:

- 20 percent or more of the total combined aggregate is Class A polish resistant fine aggregate.
 - 30 percent or more of the total combined aggregate is Class B polish resistant fine aggregate.
 - 30 percent or more of the total combined aggregate is a combination of Class A and Class B polish resistant fine aggregate.
- 3) Type C. Ensure that 40 percent or more of the total combined aggregate is polish-resistant; Class A coarse, fine, or combination.
 - 4) Type D. No restriction on aggregate type.

SUBSECTION: 403.03.03 Preparation of Mixture.

PART: B) Moisture Content of Mix

REVISION: Replace the third sentence with the following:

When moisture contents are 0.10 percent or greater, adjust the AC determination made on plant-produced mixture to reflect the actual AC as KM 64-434 directs.

SUBSECTION: 403.03.03 Preparation of Mixture.

PART: C) Mix Design Criteria.

REVISION: Add the following after the first sentence:

The Department will allow ESAL Class 1 mixtures to pass through the restricted zone.

Replace the second sentence with the following:

Conform to the gradation requirements (control points) of AASHTO MP2 for the Superpave mixture type the Contract specifies.

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SUBSECTION: 403.03.03 Preparation of Mixture.

PART: C) Mix Design Criteria.

NUMBER: 1)

REVISION: Replace the first sentence with the following:

Submit a preliminary mix design, completed using a Superpave gyratory compactor (SGC) conforming to AASHTO PP 35.

Add the following after the second sentence:

The Department will require a dust-to-binder range of 0.8 to 1.6.

SUBSECTION: 403.03.03 Preparation of Mixture.

PART: C) Mix Design Criteria.

NUMBER: 2) Selection of Optimum AC.

REVISION: Add the following:

Ensure the optimum AC is a minimum of 5.0 percent by weight of the total mixture for all 0.5-inch nominal surface mixtures and 5.3 percent by weight of the total mixture for all 0.38-inch nominal surface mixtures.

SUBSECTION: 403.03.06 Thickness Tolerance.

TABLE: Nominal Maximum Size of Mixture vs. Thickness Range

REVISION: Delete

SUBSECTION: 403.03.08 Rumble Strips.

REVISION: Replace with the following:

A) Interstates and Parkways. Construct sawed rumble strips on all mainline and ramp shoulders to the dimensions shown below.

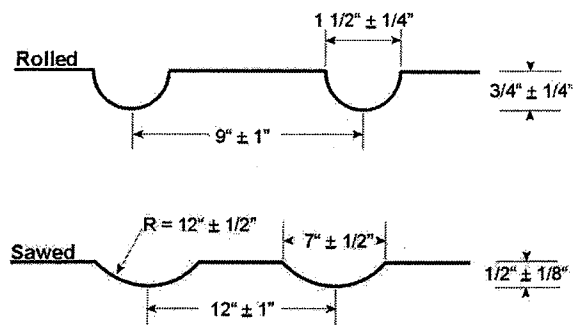
B) Other Roads. When using a surface mixture instead of Asphalt Mixture for Pavement Wedge, or when the Engineer deems it appropriate to pave the driving lanes and the adjacent shoulder monolithically, provide rolled rumble strips. Construct strips on all main line shoulders to the dimensions shown below. When furnishing Asphalt Mixture for Pavement Wedge, binder, or a base mixture for shoulders, the Department will not require rumble strips.

Time the rolling operation so indentations are at the specified size and depth without causing unacceptable displacement of the asphalt mat. Correct unacceptable rolled-in rumble strips by sawing.

On shoulders less than 3 feet, shorten the length and distance of the strips as the Engineer directs.

If preferred, construct the rumble strips by sawing as specified for Interstates and Parkways.

RUMBLE STRIP DIMENSIONS



Distance from the edge of the mainline pavement to the end of the strip: 1 foot
Length of strips: Rolled 2 feet, Sawed 16 inches

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SUBSECTION:	403.03.09 Leveling and Wedging, and Scratch Course.
PART:	A) Leveling and Wedging.
REVISION:	Replace the first sentence with the following: Conform to the gradation requirements (control points) for base, binder, or surface as applicable.
SUBSECTION:	403.03.09 Leveling and Wedging, and Scratch Course.
PART:	B) Scratch Course.
REVISION:	Replace the second sentence with the following: Conform to the gradation requirements (control points) for base, binder, or surface as the Engineer directs.
SUBSECTION:	403.04.03 Asphalt Mixtures.
REVISION:	Add the following: The Department will not measure rumble strips for payment and will consider them incidental to this bid item.
SECTION:	404 OPEN-GRADED FRICTION COURSE
TABLE:	LOT PAY ADJUSTMENT SCHEDULE FOR SPECIALTY MIXTURES
REVISION:	Replace the table with the following table:

LOT PAY ADJUSTMENT SCHEDULE FOR SPECIALTY MIXTURES (TEST DEVIATION FROM JMF)		
	Pay Value	Deviation From JMF (%)
Asphalt	1.00	0.0-0.5
Binder	0.98	0.6
Content	0.95	---
	0.90	0.7
	0.85	0.8
	0.75	≥ 0.9
1 1/2 inch Sieve	1.00	0-13
	0.98	14
	0.95	15-16
	0.90	17-20
	0.85	21-23
	0.75	≥ 24
1 inch, 3/4 inch, and 1/2 inch Sieves	1.00	0-9
	0.98	10
	0.95	11-12
	0.90	13-14
	0.85	15-16
	0.75	≥ 17
3/8 inch, No. 4, No. 8, No. 16, and No. 30 Sieves	1.00	0-8
	0.98	9
	0.95	10
	0.90	11-12
	0.85	13-14
	0.75	≥ 15
No. 50 Sieve	1.00	0-6
	0.98	7
	0.95	8
	0.90	9
	0.85	10
	0.75	≥ 11
No. 100 Sieve	1.00	0-3
	0.98	---
	0.95	4
	0.90	5
	0.85	---
	0.75	≥ 6
No. 200 Sieve	1.00	0.0-2.0
	0.98	2.5
	0.95	3.0
	0.90	---
	0.85	3.5
	0.75	≥ 4.0
Fineness Modulus	1.00	0.0-0.30
	0.98	0.31-0.34
	0.95	0.35-0.39
	0.90	0.40-0.46
	0.85	0.47-0.55
	0.75	≥ 0.56

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SUBSECTION:	406.02.01 Tack Coat.																					
REVISION:	Replace with the following: Furnish any of the following asphalt materials conforming to 806: SS-1, SS-1h, or RS-1.																					
SUBSECTION:	406.02.03 Curing Seal.																					
REVISION:	Replace with the following: Furnish any of the following asphalt materials conforming to 806: RS-1, RS-2, SS-1, SS-1h, or Primer L.																					
SUBSECTION:	406.03.03 Application.																					
REVISION:	Replace the temperature table with the following: Primer L 60-120 °F SS-1, SS-1h 70-160 °F RS-1, RS-2 70-140 °F																					
SUBSECTION:	406.03.03 Application.																					
PART:	B) Asphalt Tack Coat.																					
REVISION:	Replace the second paragraph with the following: When furnishing RS-1 for tack, apply it undiluted. Replace the first sentence of the third paragraph with the following: When furnishing SS-1 or SS-1h for tack, the Department will allow diluted or undiluted application provided uniform and complete coverage is achieved.																					
SUBSECTION:	407.02.02 Aggregate.																					
REVISION:	Change Sieve Size No. 30 to read Sieve Size No. 50.																					
SUBSECTION:	408.04.02 Mobilization for Asphalt Pavement Milling and Texturing.																					
REVISION:	Add the following: For group contracts, the Department will measure the quantity for each project (subsection) that has a bid item for Mobilization for Asphalt Pavement Milling and Texturing.																					
SUBSECTION:	409.02 MATERIALS AND EQUIPMENT.																					
REVISION:	Replace "KM 64-427" with the following: the guidelines in Subsection 409.03.02																					
SUBSECTION:	409.03.01 Restrictions.																					
REVISION:	Add the following sentence: When the mixture's bid item specifies PG 76-22, limit RAP content to 20 percent or less.																					
SUBSECTION:	409.03.02 Preparation of Mixture.																					
PART:	A) Mix Requirements.																					
REVISION:	Void the Revision and replace with the following: Conform to the Contract requirements for each mixture produced using RAP. If mixtures produced using RAP do not conform to the requirements for that mixture, complete the project using all virgin materials at no additional expense to the Department. Conform to the following table to select the appropriate grade of virgin asphalt binder to blend with the RAP:																					
<table><tr><th rowspan="2">Mixture's Bid Item</th><th colspan="3">Appropriate Virgin Asphalt Binder</th></tr><tr><th>0-20% RAP</th><th>21-30% RAP</th><th>>30% RAP</th></tr><tr><td>PG 76-22</td><td>PG 76-22</td><td>-</td><td>-</td></tr><tr><td>PG 70-22</td><td>PG 70-22</td><td>PG 64-22</td><td>*</td></tr><tr><td>PG 64-22</td><td>PG 64-22</td><td>PG 64-22</td><td>*</td></tr></table>				Mixture's Bid Item	Appropriate Virgin Asphalt Binder			0-20% RAP	21-30% RAP	>30% RAP	PG 76-22	PG 76-22	-	-	PG 70-22	PG 70-22	PG 64-22	*	PG 64-22	PG 64-22	PG 64-22	*
Mixture's Bid Item	Appropriate Virgin Asphalt Binder																					
	0-20% RAP	21-30% RAP	>30% RAP																			
PG 76-22	PG 76-22	-	-																			
PG 70-22	PG 70-22	PG 64-22	*																			
PG 64-22	PG 64-22	PG 64-22	*																			
* Select according to KM 64-427																						

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SUBSECTION: 410.05 PAYMENT.
REVISION: Replace the RIDE QUALITY ADJUSTMENT SCHEDULE with the following 2 schedules:

**RIDE QUALITY ADJUSTMENT SCHEDULE
FOR ROADS POSTED GREATER THAN 45 MPH**

IRI	Pay Value⁽¹⁾
36 or Less	+0.15
37 to 46	= 0.015 x (47 - IRI)
47 to 66	0.00
67 to 76	= 0.015 x (67 - IRI)
77 or higher	Corrective work or replacement required

**RIDE QUALITY ADJUSTMENT SCHEDULE
FOR ROADS POSTED 45 MPH OR LESS**

Rideability Index	Pay Value⁽¹⁾
36 or Less	+0.15
37 to 46	= 0.015 x (47 - IRI)
47 to 85	0.00
86 or lower	Corrective work or replacement required

⁽¹⁾ The Department will not apply a positive pay value for corrective work other than removal and replacement to achieve the IRI.

SUBSECTION: 501.03.13 Finishing.

PART: H) Texturing.

REVISION: Replace the third paragraph with the following:

Form transverse grooves in the concrete with a width between 0.09 inch and 0.13 inch and a depth between 0.12 inch and 0.19 inch. Space the grooves at random intervals between 0.4 inch to 1.5 inches with no more than 50 percent of the spacing being one inch or greater.

SUBSECTION: 502.03 CONSTRUCTION.

PART: D) Strength Testing and Opening to Traffic.

NUMBER: 1) Cylinders.

REVISION: Replace the first sentence with the following:

The Department will cast, cure, and test 3 sets from each 150 cubic yards of concrete.

SUBSECTION: 506.03.01 Header Curb, Valley Gutter, and Curb and Gutter (Combination).

REVISION: In the second sentence of the third paragraph replace the Subsection reference 601.03.12 with 501.02.10.

In the second sentence of the sixth paragraph replace the Subsection reference 601.03.16 with 501.03.17 D).

SUBSECTION: 508.03.03 Precast Construction.

REVISION: Replace "Subsection 605.03" in the first sentence with Section 605.

SUBSECTION: 509.03 CONSTRUCTION.

REVISION: Replace "Subsection 605.03" in the first sentence with Section 605.

SUBSECTION: 601.02.13 Forms.

PART: F) Stay-In-Place Metal Forms.

NUMBER: 1) Forms and Supports.

REVISION: Replace ASTM A 446 with ASTM A 653.

Replace ASTM A 525 with ASTM A 924.

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SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	A) Concrete.
TABLE:	INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS CLASSES OF CONCRETE
REVISION:	Add the following foot note to AA Slump: <i>The Department may allow the slump of AA concrete to be increased up to a 6 inch maximum, provided the w/c ratio does not exceed 0.40 and a high range water reducer (Type F or G) is used. Trial Batches will be required if producer has not previously supplied.</i>
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	A) Concrete.
TABLE:	INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS CLASSES OF CONCRETE
REVISION:	Replace note 11 with the following: <i>Compressive Strength Testing, Opening to Traffic and Acceptance Requirements for Class M1 and Class M2. Test one set of cylinders at 24 ± 0.5 hours from the time of molding, and allow the resulting average strength to dictate one of the following actions:</i> <i>(a) If the average compressive strength is 3,500 psi or above, open to traffic, and test the remaining set of cylinders at an age of 7 days or 28 days.</i> <i>(b) If the average compressive strength is between 3,000 and 3,500 psi, open to traffic, and test the remaining set of cylinders at $48 \pm$ one hour.</i> <i>(c) If the average compressive strength is less than 3,000 psi, protect the item as directed or approved. Test the remaining set of cylinders at $48 \pm$ one hour.</i> <i>If the average strength of the cylinders tested at $48 \pm$ one hour is 3,500 psi or above, the Engineer will consider the concrete acceptable. If the average strength is below 3,500 psi, take 2 cores from the concrete and test at an age of 7 days. If the average strength of the cores tested at 7 days is 4,000 psi, the Engineer will consider the concrete acceptable.</i> <i>When 2 consecutive first sets of cylinders or when 2 first sets out of any 4 first sets of cylinders do not reach 3,500 psi, compressive strength, the Engineer will suspend the work. Resume work when the Engineer approves the adjusted mix design.</i> <i>Cast 2 sets of cylinders from the concrete used for each placement.</i> <i>Cast the cylinders after tests verify that the concrete conforms to slump and air content requirements. Make and cure the cylinders according to the procedures outlined in KM 64-305. Department personnel will test the mixture and cast cylinders.</i>
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP, IS and I(SM) Cement or Mineral Admixtures.
NUMBER:	2) Mineral Admixtures.
REVISION:	Add the following after the first sentence: Reduction of the total cement content by a combination of any mineral admixtures will be allowed, up to a maximum of 30 percent.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP Cement or Mineral Admixtures.
NUMBER:	2) Mineral Admixtures.
LETTER:	b) Ground Granulated Blast Furnace Slag (GGBF Slag).
REVISION:	Replace the first sentence with the following: When added as a separate ingredient, use Grade 120 GGBF or 100 GGBF slag to reduce the quantity of cement, except do not use GGBF slag to reduce the quantity of Type IS or I(SM) cement.
SUBSECTION:	601.03.04 Classes and Primary Uses.
PART:	P) Non-Shrink Grout.
REVISION:	Replace with the following: Bonding and sealing for post-tensioning, tie-back rods and bolts, and box beams.

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SUBSECTION:	601.03.09 Placing Concrete.
PART:	A) General.
REVISION:	Add the following to the fifth paragraph: When pumping, equip the delivery pipe with a nozzle, having a minimum of 2 right angles, at the discharge end.
SUBSECTION:	601.03.09 Placing Concrete.
PART:	D) Weather Limitations.
REVISION:	Replace the first sentence of the second paragraph with the following: Maintain the temperature of the mixture at or below 90 °F during placement. Unless the Engineer determines that safety concerns or other considerations prohibit a shutdown, cease concrete production when the mixture exceeds 90 °F until adequate methods are in place to reduce or maintain the mixture temperature.
SUBSECTION:	601.03.15 Opening to Traffic.
TABLE:	Required Time in Calendar Days Before Applying Significant Loads on Concrete Structures
REVISION:	Change the title of the seventh item to the following: Caps on Concrete Pile Bents, Open Column Abutments, and Piers
SUBSECTION:	606.02 MATERIALS AND EQUIPMENT.
REVISION:	Add the following subsection: 606.02.11 Coarse Aggregate. Conform to Section 805, size 9-M.
SUBSECTION:	607.03.05 Bolted Connections Using High-Strength Steel Bolts.
PART:	B) Direct Tension Indicators.
REVISION:	Replace the first two sentences of the third paragraph with the following: Under normal conditions, install the tension indicator under the non-turned element of the fastening system. Obtain the Engineer's permission before installing tension indicators under the turned element. If the Engineer determines that it is necessary to install the tension indicator under the turned element, install additional hardened washers according to the manufacturer's instructions. Add the following to the end of the fourth paragraph: The fastener assembly may also need to be replaced.
SUBSECTION:	607.03.08 Planing and Finishing.
PART:	B) Flame Cutting.
REVISION:	Replace the first sentence of the second paragraph with the following: Remove roughness exceeding these values and occasional notches or gouges no more than 3/16 inch deep, on otherwise satisfactory surfaces, by machining or grinding.

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SUBSECTION:	607.03.23 Cleaning and Painting.
PART:	D) Preparation for Field Coatings.
REVISION:	Replace the second and third paragraphs with the following: After erection, including all bolting and remedial work, prepare the shop applied zinc coating for field applied intermediate coating as follows. Remove all grease, oil or other lubricants from all surfaces to be painted including lubricant or residuals from the surfaces of all galvanized nuts, bolts and washers by solvent cleaning according to SSPC SP 1. When dry overspray from the shop applied zinc coating exists, remove by sanding. High pressure water wash all structural steel at 4,500 to 5,000 psi. using clean potable water. As needed, use a non-sudsing, bio-degradable detergent to remove all surface contaminants not removed by high pressure water washing. Rinse all areas where a detergent and/or solvent was applied by pressure washing with clean potable water. Blast clean all surfaces sustaining damage to the shop applied zinc coating to the pictorial standards described in subsection B. Apply a field coat of approved zinc rich coating to all areas not possessing an acceptable shop applied zinc coating. Completely remove all rust, scale and other foreign material before applying the intermediate coating. When application of the finish coat exceeds the recoat window of the intermediate coat, abrade the surface of the intermediate coat according to the coating manufacturer's recommendations before applying the finish coat.
SUBSECTION:	607.03.23 Cleaning and Painting.
PART:	E) Application of Field Coatings.
REVISION:	Replace the second paragraph with the following: Apply paint only to clean and dry surfaces when the ambient air temperature is 40 °F or greater, the surface temperature of the steel members to be painted is at least 5 °F above the dew point, and the relative humidity is less than 90 percent. Do not apply paint to damp or frosted surfaces, nor during any period of rainfall. Replace the fifth paragraph with the following: Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise.
SUBSECTION:	611.02.01 Concrete.
REVISION:	Replace the first sentence with the following: Conform to ASTM C 1433.
SUBSECTION:	611.03.01 Transportation and Handling.
REVISION:	Replace the first sentence with the following: Handle and store the precast units so that flexural stresses are not induced until the concrete age is 7 days or attains a compressive strength of 3,000 psi.
SUBSECTION:	611.03.02 Precast Unit Construction.
REVISION:	Add the following: 4) Contrary to ASTM C 1433 Section 10.3, assure the compressive strength of the cores tested are equal to or greater than the design strength.
SUBSECTION:	611.03.07 Joints.
PART:	A) Rubber Gaskets.
REVISION:	Replace the title with the following: A) Butyl Rubber Sealant.
SUBSECTION:	611.03.07 Joints.
PART:	B) Flexible Plastic Gaskets.
REVISION:	Replace the title with the following: B) Rubber Gaskets.

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SUBSECTION:	613.05 PAYMENT.
REVISION:	Replace 8160 Structure Excavation with the following: 2203 Structure Excavation Unclassified
SUBSECTION:	614.02.01 Paint.
REVISION:	Add the following: Furnish a paint system in which all coats are produced by the same manufacturer and use the same system throughout the entire project.
SUBSECTION:	614.03.06 Paint Application.
REVISION:	Replace the first sentence of the fourth paragraph with the following: Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise.
SUBSECTION:	701.02.03 Joint Materials.
PART:	D) Flexible Plastic Gaskets.
REVISION:	Replace with the following: D) Butyl Rubber Sealants. Conform to Section 807.
SUBSECTION:	701.02.04 Bedding Materials.
REVISION:	Replace the first sentence with the following: Use No. 8 aggregate, No. 9 aggregate, or a fine aggregate conforming to Subsection 804.08 for bedding material.
SUBSECTION:	701.02.04 Bedding Materials.
TABLE:	A1, A2, and A3 Characteristics
REVISION:	Under A3, replace "51 max" with "51 min"
SUBSECTION:	702.03.05 Joints.
PART:	A) Reinforced Concrete Pipe.
NUMBER:	2) Rubber Gaskets.
REVISION:	Replace with the following: In addition to the requirements of Subsection 701.02, use a pipe section conforming to AASHTO M 315. Use the gasket manufacturer's recommended cement and lubricant. Snugly fit the rubber gasket in the beveled surface of the tongue and groove ends of the sections to form a flexible seal under all conditions of service.
SUBSECTION:	701.03.05 Joints.
PART:	B) Corrugated Metal Pipe.
REVISION:	Void the Revision and replace with the following: Construct joints using a band with annular corrugations and a bolt, bar and strap connection. Use a minimum nominal band width of 12 inches for all pipe diameters 54 inches and smaller. Use a two-piece band with a minimum nominal width of 20 inches for all pipe diameters greater than 54 inches. Manufacture the band from the same base materials as the pipe. The pipe bands may be up to two gauges lighter than the pipe it is joining, with a minimum gauge thickness of 16. The Department may allow dimple band connections for field cut pipe. Install the connecting bands according to the manufacturer's written recommendations.
SUBSECTION:	703.02.09 Geotextile Fabric.
REVISION:	Replace Section reference 845 with 843.
SUBSECTION:	703.04.08 Geotextile Fabric.
REVISION:	Add the subsection: 703.04.08 Geotextile Fabric. The Department will measure the quantity according to Subsection 214.04.
SUBSECTION:	710.02 MATERIALS.
REVISION:	Add the following Subsection: 710.02.15 High Density Polyethylene (HDPE) Adjusting Rings. Conform to Section 846.

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SUBSECTION:	710.03.01 Newly Constructed Small Drainage Structures.
PART:	A) General.
REVISION:	Replace the last sentence of the sixth paragraph with the following: Use precast concrete, precast concrete pipe sections, cast-in-place, brick, or HDPE adjusting rings for adjustment of existing manholes according to the Standard Specifications.
SUBSECTION:	710.03.01 Newly Constructed Small Drainage Structures.
PART:	B) Precast Structures Except Manholes.
REVISION:	Replace the first two sentences with the following: Only furnish products manufactured by a precast producer listed in the Department's List of Approved Materials. If the producer does not have an approved drawing for the product, submit 5 copies of shop drawings to the Engineer for review and approval.
SUBSECTION:	710.03.03 Adjusted Small Drainage Structures.
REVISION:	Add the following sentence to the end of the first paragraph: For HDPE adjusting rings, install and seal according to the manufacturer's recommendations.
SUBSECTION:	712.03.02 Type V Markers.
REVISION:	Replace the first sentence of the first paragraph with the following: Install Type V Markers in slots cut into the pavement according to the manufacturer's recommendations. Delete the last paragraph.
SUBSECTION:	713.02.02 Drop on Glass Beads.
REVISION:	Replace with the following: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings.
SECTION:	713 PERMANENT PAVEMENT STRIPING.
REVISION:	Add the following subsection: 713.03.06 Acceptance of Non-Specification Markings. If weather conditions allow, perform corrective work to bring striping retroreflectivity into conformance. If corrective work has been performed and the work meets all requirements except for minimum retroreflectivity, the Department may accept the work according to Subsection 105.04. When the Engineer determines that the markings may be left in place, the Department will accept them at a reduction in the Contract unit bid price according to the Acceptance Pay Schedule. Additionally, the Engineer may remove the striping crew for the remainder of the project according to Subsection 108.06 Part A). The Engineer may also apply this section when corrective work cannot be performed due to weather. Acceptance Pay Schedule – White 156 to 174 mcd/lux/square meter – 50% pay 138 to 155 mcd/lux/square meter – 25% pay 120 to 137 mcd/lux/square meter – 0% pay < 120 mcd/lux/square meter – unacceptable Acceptance Pay Schedule – Yellow 126 to 149 mcd/lux/square meter – 50% pay 103 to 125 mcd/lux/square meter – 25% pay 80 to 102 mcd/lux/square meter – 0% pay < 80 mcd/lux/square meter – unacceptable

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SUBSECTION:	713.03 CONSTRUCTION.
REVISION:	Replace the MUTCD references to "Part III" with "Part 3"
SUBSECTION:	714.02.03 Binder.
REVISION:	Replace the last sentence with the following: Submit the material and method of application to the Engineer and obtain written approval from the Engineer and the manufacturer of the pavement marking material before applying.
SUBSECTION:	714.02.04 Drop on Glass Beads.
REVISION:	Replace with the following: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings.
SUBSECTION:	714.03 CONSTRUCTION.
REVISION:	Replace the MUTCD references to "Part III" with "Part 3" and figure references to "3-11 and 3-12" with "3B-8 and 3B-9"
SUBSECTION:	714.03.01 Layout.
REVISION:	Replace the MUTCD reference to "Part III" with "Part 3"
SUBSECTION:	714.03.03 Application.
PART:	A) Type I Tape.
REVISION:	Add the following: When applied to concrete, cut the tape at all joints.
SUBSECTION:	714.03.04 Restrictions.
REVISION:	Replace the first paragraph with the following: Do not apply the pavement marking material when air and pavement temperatures are below 50 °F. Delete the third paragraph.
SUBSECTION:	714.03.06 Proving Period for Durable Markings.
PART:	A) Requirements.
NUMBER:	1) Type I Tape.
REVISION:	Add the following: Type I Tape is manufactured off site and warranted by the manufacturer to meet certain retroreflective requirements. As long as the material is adequately bonded to the surface and shows no sign of failure due to the other items listed in Subsection 714.03.06 A) 1), retroreflectivity readings will not be required. In the absence of readings, the Department will accept tape based on a nighttime visual observation.
SUBSECTION:	714.03.06 Proving Period for Durable Markings.
PART:	A) Requirements.
NUMBER:	2) Thermoplastic.
REVISION:	Replace the first sentence of the second paragraph with the following: The minimum retroreflectivity requirements at the end of the proving period, as measured with a LTL 2000, LTL 2000Y, or Department approved 30M geometry mobile instrument are as follows: Replace the first sentence of the third paragraph with the following: The Department will take these measurements between 150 and 210 days after the start of the proving period, basing acceptance on KM 202 for LTL 2000 readings and KM 203 for mobile readings.
SUBSECTION:	714.05 PAYMENT.
REVISION:	Replace with the following: The Department will make payment upon completion of the work. If after the proving period the markings do not meet minimum retroreflectivity requirements, the Department will adjust the payment or require corrective work according to the following:

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SUBSECTION:	717.02.04 Drop on Glass Beads.
REVISION:	Replace with the following: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings.
SECTION:	804.03 Concrete.
REVISION:	Replace the last sentence with the following: The Department will waive the requirements for gradation, sand equivalent, and uncompacted voids for concrete pipe.
SUBSECTION:	804.04.04 Requirements for Combined Aggregates.
PART:	B) Sand Equivalent.
REVISION:	Replace the third paragraph with the following: The Department may waive the sand equivalent requirement provided the portion of the combined aggregate passing the No. 40 sieve is non-plastic according to AASHTO T 90.
SUBSECTION:	804.04.04 Requirements for Combined Aggregates KM.
TABLE:	Superpave Fine Aggregate Consensus Property Requirements.
REVISION:	For ESAL Class 1, Replace both dashes with 40.
SUBSECTION:	805.03.01 Soundness and Shale.
PART:	AGGREGATE USE/Portland Cement Concrete Mixtures.
REVISION:	Replace the title use "Class AA, Class S and Bridge Deck Overlays" with "Aggregate for Bridge Decks, Bridge Deck Overlays, and Bridge Barrier Walls"
SECTION:	805 COARSE AGGREGATES.
TABLE:	Sizes of Coarse Aggregates.
REVISION:	Replace KM 64-420 in footnote (1) with KM 64-620.
SECTION:	805 COARSE AGGREGATES.
TABLE:	Aggregates Size Use.
REVISION:	For Cement Concrete Structures and Incidental Construction add 9-M for Overlays to the sizes to be used column.
SUBSECTION:	805.03.03 Gradation.
REVISION:	Replace the last sentence with the following: The Department will allow blending of same source/same type aggregate to achieve designated sizes when precise procedures are used such as cold feeds, belts, weigh hoppers, or equivalent.
SUBSECTION:	805.03.04 Erodible or Unstable Material.
REVISION:	Add the subsection: 805.03.04 Erodible or Unstable Material. Treat as applicable. The Department considers Size No. 57 or larger aggregate, except crushed or uncrushed gravel, non-erodible. The Department considers the following materials to be erodible or unstable: 1) Friable sandstone. The Engineer determines when sandstone is friable or non-friable. 2) Crushed or uncrushed gravel, any size. 3) Crushed coarse aggregate smaller than Size No. 57. 4) Any material with 50 percent or more passing the No. 4 sieve.
SUBSECTION:	805.04 CONCRETE.
REVISION:	Replace the second paragraph with the following: The Department will waive the requirements for gradation and finer than No. 200 for concrete pipe.
SUBSECTION:	805.10 GRANULAR EMBANKMENT.
REVISION:	Replace "2 ½-inch" with "12-inch".
SUBSECTION:	805.10 GRANULAR EMBANKMENT.
PART:	1)
REVISION:	Replace with the following: 1) Engineer approved shot limestone or sandstone from roadway excavation, borrow excavation, or another approved source.

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SUBSECTION:	805.11 STRUCTURE GRANULAR BACKFILL.																			
REVISION:	Replace with the following: Provide crushed or uncrushed aggregate meeting the quality requirements of this section. When the material includes a significant amount of individual fragments greater than 1 ½ inches, the Engineer may visually accept the minus No. 200 portion. Conform to the following gradation:																			
	<table><tr><td><u>Sieve Size</u></td><td><u>Percent Passing</u></td></tr><tr><td>4 inch</td><td>100</td></tr><tr><td>No. 4</td><td>0-10</td></tr><tr><td>No. 200</td><td>0-5</td></tr></table>	<u>Sieve Size</u>	<u>Percent Passing</u>	4 inch	100	No. 4	0-10	No. 200	0-5											
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4 inch	100																			
No. 4	0-10																			
No. 200	0-5																			
SUBSECTION:	805.13.03 Channel Lining, Class IA.																			
REVISION:	Replace the first sentence with the following: Provide crushed stone meeting the general requirements of this section.																			
SUBSECTION:	805.13.04 Channel Lining, Class II.																			
REVISION:	Replace the first sentence with the following: Provide crushed stone meeting the general requirements of this section.																			
SUBSECTION:	805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.																			
TABLE:	GRADATION – COARSE AGGREGATES FOR UNDERDRAINS																			
REVISION:	Replace “No. 200” sieve with “No. 100”.																			
SUBSECTION:	810.03.04 Extra Protection																			
REVISION:	Replace “mm” in the second sentence of the second paragraph with “inches”.																			
SECTION:	810.03 REINFORCED CONCRETE PIPE.																			
REVISION:	Add new subsection: 810.03.07 Concrete. Submit Concrete Mix Design to the Central Office Materials.																			
SECTION:	812.01.01 Structural Steel, All Types.																			
REVISION:	Replace second sentence with the following: When the supplementary requirement of this specification are specified, they exceed the requirements of ASTM A 36, A 514, A 572, A 588, and ASTM A 852.																			
SUBSECTION:	812.01.01 Structural Steel, All Types.																			
PART:	A) Structural Steel.																			
REVISION:	Delete AASHTO M 183.																			
SUBSECTION:	812.01.01 Structural Steel, All Types.																			
PART:	B) High-Strength Low-Alloy Columbium-Vandium Steels of Structural Quality.																			
REVISION:	Delete AASHTO M 223.																			
SUBSECTION:	812.01.01 Structural Steel, All Types.																			
PART:	C) High-Strength Low-Alloy Structural Steel with 345 Mpa Minimum Yield Point to 4 Inches Thick.																			
REVISION:	Delete AASHTO M 222.																			
SUBSECTION:	812.01.01 Structural Steel, All Types.																			
PART:	E) High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding.																			
REVISION:	Delete AASHTO M 244.																			
SECTION:	813.08.05 Aluminum Alloy Rolled or Extruded Shapes.																			
REVISION:	Replace “T-4 AND T6” with “T6”.																			
SUBSECTION:	813.09.02 High-Strength Steel Bolts, Nuts, and Washers.																			
PART:	A) Bolts.																			
REVISION:	<table><tr><th colspan="5">HARDNESS NUMBER</th></tr><tr><th rowspan="2">Bolt Size (in)</th><th colspan="2">Brinell</th><th colspan="2">Rockwell C</th></tr><tr><th>Min</th><th>Max</th><th>Min</th><th>Max</th></tr><tr><td>½ - 1</td><td>253</td><td>319</td><td>25</td><td>34</td></tr></table>	HARDNESS NUMBER					Bolt Size (in)	Brinell		Rockwell C		Min	Max	Min	Max	½ - 1	253	319	25	34
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	Min	Max	Min	Max																
½ - 1	253	319	25	34																
SUBSECTION:	813.13 MATTRESSES AND GABIONS.																			
REVISION:	Replace the first sentence of the first paragraph with the following: Conform to ASTM A 975, Style 1 or ASTM A 974, Style 1 or 2.																			

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SUBSECTION:	814.04.01 Steel Guardrail Posts.																												
REVISION:	Replace AASHTO M 183 in the first sentence with ASTM A 36.																												
SUBSECTION:	814.05.02 Composite Plastic.																												
REVISION:	Add the following sentence to the first paragraph: Rubber is an acceptable alternate to plastic in their composition.																												
SUBSECTION:	814.06 MATERIALS FOR END TREATMENTS.																												
PART:	D) Steel Sheet (for rail plates and mounting brackets).																												
REVISION:	Replace 570, Grade D with the 1011, Type SS, Grade 36.																												
SUBSECTION:	816.02 GENERAL.																												
REVISION:	Replace ASTM D 2521 with ASTM A 239.																												
SUBSECTION:	816.02.02 Aluminum-Coated Steel.																												
REVISION:	Replace 0.01 with 0.099.																												
SUBSECTION:	819.01.01 Steel Plates.																												
REVISION:	Replace "Paragraph 14" in the second sentence of the second paragraph with "Table 6".																												
SUBSECTION:	821.03 SAMPLING AND TESTING.																												
REVISION:	In the third sentence of the first paragraph, replace calendar days with working days.																												
SUBSECTION:	827.04 PERMANENT SEED.																												
REVISION:	Replace with the following: Conform to the requirements outlined in the "Kentucky Seed Law and Provisions for Seed Certification in Kentucky" and the "Regulations under the Kentucky Seed Law", with following exceptions: <ol style="list-style-type: none"> 1. Obtain seed only through registered dealers that are permitted for labeling of seed. 2. Ensure all deliveries/shipments of premixed seed are accompanied with a master blend sheet. 3. The Department may sample the seed at the job site at any time. 4. Ensure all bags and containers have an acceptable seed tag attached. <p>Do not use seed (grasses, native grasses and legumes) if the weed seed is over 2%, total germination (including hard seed) is less than 60%, if the seed test date is over 9 months old exclusive of the month tested, or if the limits of noxious weed seed is exceeded.</p> <p>Ensure that noxious weed seeds contained in any seed or seed mixture does not exceed the maximum permitted rate of occurrence per pound.</p> <table> <thead> <tr> <th>Name of Kind</th><th>Max. No. Seeds (per pound)*</th></tr> </thead> <tbody> <tr> <td>Balloon Vine (<i>Cardiospermum Halicacabum</i>)</td><td>0</td></tr> <tr> <td>Purple Moonflower (<i>Ipomoea turbinata</i>)</td><td>0</td></tr> <tr> <td>Canada Thistle (<i>Cirsium Arvense</i>)</td><td>0</td></tr> <tr> <td>Johnsongrass (<i>Sorghum Halepense</i> and <i>Sorghum Almum</i> and perennial rhizomatous derivatives of these species)</td><td>0</td></tr> <tr> <td>Quackgrass (<i>Elytrigia Repens</i>)</td><td>0</td></tr> <tr> <td>Annual Bluegrass (<i>Poa Annua</i>)</td><td>256</td></tr> <tr> <td>Buckhorn Plantain (<i>Plantago lanceolata</i>)</td><td>304</td></tr> <tr> <td>Corncockle (<i>Agrostemma Githago</i>)</td><td>192</td></tr> <tr> <td>Dodder (<i>Cuscuta</i> spp.)</td><td>192</td></tr> <tr> <td>Giant Foxtail (<i>Setaria Faberii</i>)</td><td>192</td></tr> <tr> <td>Oxeye Daisy (<i>Chrysanthemum leucanthemum</i>)</td><td>256</td></tr> <tr> <td>Sorrel (<i>Rumex Acetosella</i>)</td><td>256</td></tr> <tr> <td>Wild Onion and Wild Garlic (<i>Allium</i> spp.)</td><td>96</td></tr> </tbody> </table> <p>* Seed or seed mixtures that contain in excess of 480 total noxious seeds per pound is prohibited Wildflower seed shall not be planted until approved by the MCL.</p>	Name of Kind	Max. No. Seeds (per pound)*	Balloon Vine (<i>Cardiospermum Halicacabum</i>)	0	Purple Moonflower (<i>Ipomoea turbinata</i>)	0	Canada Thistle (<i>Cirsium Arvense</i>)	0	Johnsongrass (<i>Sorghum Halepense</i> and <i>Sorghum Almum</i> and perennial rhizomatous derivatives of these species)	0	Quackgrass (<i>Elytrigia Repens</i>)	0	Annual Bluegrass (<i>Poa Annua</i>)	256	Buckhorn Plantain (<i>Plantago lanceolata</i>)	304	Corncockle (<i>Agrostemma Githago</i>)	192	Dodder (<i>Cuscuta</i> spp.)	192	Giant Foxtail (<i>Setaria Faberii</i>)	192	Oxeye Daisy (<i>Chrysanthemum leucanthemum</i>)	256	Sorrel (<i>Rumex Acetosella</i>)	256	Wild Onion and Wild Garlic (<i>Allium</i> spp.)	96
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SUBSECTION:	832.02 TYPE I POSTS.																												
REVISION:	Replace ASTM A 570 with ASTM A 1011.																												

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SECTION:	840 RAISED PAVEMENT MARKERS								
REVISION:	Replace the section with the following: 840.01 TYPE IV MARKERS. Provide markers from the Department's List of Approved Materials. Type IV markers are replacement lenses for use in Type V marker castings. 840.02 TYPE V MARKERS. Provide markers from the Department's List of Approved Materials. Type V markers consist of an iron casting with a Type IV marker (mono or bi-directional) attached. 840.03 TYPE IVA MARKERS. Provide markers from the Department's List of Approved Materials. Type IVA markers are surface mounted lenses for temporary use in work zones. 840.04 SAMPLING. Obtain a manufacturer's certification for each shipment. Include with each shipment of adhesive a written statement from the manufacturer certifying that it conforms to the recommendations of the marker manufacturer, and stating the minimum temperature the adhesive can be satisfactorily mixed and applied. 840.05 PACKAGING. Suitably and substantially package all materials with the name and address of the manufacturer and vendor, contract or purchase number, kind of material, trade name, and net contents plainly marked on each package.								
SUBSECTION:	843.01.01 Geotextile Fabric.								
REVISION:	Add the following sentence to the first paragraph: Use circular-knit geotextile conforming to ASTM D 6707 for perforated pipe socks. Add the following sentence to the third paragraph: The manufacturer must participate in the National Transportation Product Evaluation Program (NTEP) for Geotextiles and Geosynthetics.								
SUBSECTION:	843.01.01 Geotextile Fabric.								
PART:	C) Acceptance.								
REVISION:	Delete the burst strength requirement from each table.								
SUBSECTION:	845.02.03 Wrapping.								
REVISION:	Replace Section 845 with Section 843, Type II.								
SECTION:	846 HIGH DENSITY POLYETHYLENE (HDPE) ADJUSTING RINGS								
REVISION:	Add New Section: 846.01 RESIN. Use a recycled polyethylene plastic or virgin resin producing a molded part meeting the following requirements: <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Melt Flow Index (ASTM D 1238)</td><td>4.0-10.0 g/10min</td></tr> <tr> <td>Density (ASTM D 792)</td><td>0.941-0.965 g/cm³</td></tr> <tr> <td>Tensile (ASTM D 638)</td><td>2000-5000 lb/in²</td></tr> <tr> <td>ESCR (ASTM D 1693)</td><td>Condition C</td></tr> </table> 846.02 LOADING. Ensure the adjustment rings meet or exceed the loading requirements of AASHTO'S Standard Specification for HS-25 wheel loading for Highway Bridges.	Melt Flow Index (ASTM D 1238)	4.0-10.0 g/10min	Density (ASTM D 792)	0.941-0.965 g/cm ³	Tensile (ASTM D 638)	2000-5000 lb/in ²	ESCR (ASTM D 1693)	Condition C
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SPECIAL NOTES AND DRAWINGS FOR PIKE COUNTY

Traffic Control Plan
Slide/Flood Repair Project Notes
Figure 1
Figure 2
Figure 3
Table I

Sheets 1 - 2
Sheets 1 - 8

**TRAFFIC CONTROL PLAN
SLIDE/FLOOD REPAIR PROJECT
PIKE COUNTY**

**FD51-098-1373-000-007, FD51-098-2061-003-008
FD51-098-0611-000-006, FD51-098-1441-001-012
FD51-098-3418-007-011, FD51-098-2059-000-009
FD GR03 0000081**

TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the 2000 Standard Specifications and the Standard Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work.

PROJECT PHASING & CONSTRUCTION PROCEDURES

At this time, no restrictions are anticipated. At the discretion of the Engineer, additional days and hours may be added when lane closures will not be allowed.

The Contractor shall maintain alternating one way traffic during construction. When the pavement width is 17 Ft or less, the clear lane width will be 8 Feet, where possible. When the pavement width is 18 Ft or greater, the clear lane width shall be 9 Feet. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, the Contractor shall make provisions for the passage of the bus as quickly as possible. The Contractor shall provide additional traffic control or flag persons as directed by the Engineer.

If the work site conditions require that all traffic be stopped while the drilling operation is in progress, traffic may be stopped for the length of time required to drill and set one rail or 15 minutes, whichever is shorter. All waiting traffic shall be allowed to pass before starting the next hole. If an emergency vehicle or school bus is present in the queue, stop drilling and allow traffic to pass immediately.

If the work site conditions require that all traffic be stopped while debris is being removed, traffic may be stopped for a maximum of 10 minutes unless an emergency vehicle or school bus is present in the traffic stream or comes upon the work site. If an emergency vehicle or school bus comes upon the work site or is present in the traffic stream, stop operations and allow those vehicles to pass immediately. When traffic is allowed to pass, all waiting traffic shall pass before stopping traffic again.

BARRICADES

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain and Control Traffic according to Section 112.04.01. Barricades used to protect slide areas and/or pipe removal and replacement areas will be bid as each according to Section 112.04.04.

PAVEMENT EDGE DROP-OFFS

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1½". Warning signs (MUTCD W8-11 or W8-9A) shall be placed in advance of and at 1500 foot intervals throughout the drop-off area. Dual posting on both sides of the traveled way shall be required.

Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than or equal to 2" - No protection required. Warning signs should be placed in advance and throughout the drop-off area.

Greater than 2" - Place plastic drums, vertical panels, or barricades every 50 feet. Wedge with asphalt mixture for pavement wedge with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

SLIDE/FLOOD REPAIR PROJECT NOTES
PIKE COUNTY
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FD GR03 0000081

I. DESCRIPTION

This work shall be performed in accordance with the Department's 2000 Standard Specifications and applicable Special Provisions except as hereafter specified. Article references are to the Standard Specifications.

This work shall consist of: (1) Clear and grub, install temporary erosion control, temporary pollution control, seed and protect disturbed area, and final dress area, as needed; (2) Do necessary excavation; (3) Remove debris on KY 2059, (4) Furnish and install railroad rails; (5) Install wall cribbing, furnished by the Department; (6) Excavate and backfill the area around the railroad rails and on the fill slope; (7) Reconstruct shoulder area; (8) Install guardrail and guardrail end treatments, as applicable; (9) Maintain and control traffic; and (10) any other work as specified by this contract.

II. MATERIALS

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

- A. **Railroad Rails.** Use recycled (used) railroad rails classified with a nominal weight of 130 lb./yd (pounds per yard) size or greater. Use only visibly straight recycled railroad rails with no splices. The Engineer will verify rail nominal weights (Manufacturer's Stamp with lb./yd, date, etc.). Provide Certification for nominal weight if the Manufacturer's Stamp is unidentifiable.
- B. **Wall Cribbing.** Use wall cribbing: recycled (used) steel "W" beam guardrail. Cribbing material will furnished by the Department of Highways. Wall cribbing will be located at the Department of Highways PIKE County Maintenance Facility at SHELBIANA.
- C. **Backfill material for Drilled Sockets.** Use the following for backfill material for Drilled sockets: concrete; free flowing sand; pea gravel, crushed limestone, or crushed sandstone. Use backfill material with one hundred percent (100%) passing a one-half (1/2) inch sieve. Do not use auger tailings. Engineer will use visual inspection and/or material testing, as applicable to determine acceptability.

SLIDE/FLOOD REPAIR PROJECT NOTES

PIKE COUNTY

FD51-098-1373-000-007, FD51-098-2061-003-008

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FD GR03 0000081

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- D. Fill Material for Railroad Rail.** Use one of the following backfill materials: natural creek gravel; bank run; blasted limestone; blasted sandstone; crushed sandstone; or limestone; Kentucky Aggregate Gradation No. 3's or larger; or Quarry Run. Backfill material will have no more than 15% fines passing the No. 200 sieve. The Engineer will use visual inspection and/or material testing, as applicable to determine acceptability.
- E. Final Dressing, Seed and Protection.** Use Seed Mixture No. 1.
- F. Silt Check.** Furnish Type 1 Silt Checks as per Section 213.
- G. Silt Fence.** Furnish Temporary Silt Fence as per Section 213 and Section 827.
- H. Guardrail Posts.** Steel Guardrail posts are required. No alternate is allowed.

III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Staking.** Establish proper slope elevations and ratios, shoulder widths, existing ditch profile and final ditch profile to insure positive drainage. Be responsible for field layout. Positive drainage is required upon completion of the project and is the responsibility of the Contractor.
- C. Site Preparation.** Prepare flood repair sites. This includes clearing and grubbing, if necessary. Remove all obstructions. Sweep and remove debris, if necessary. The area to be cleared has not been measured by the Department and the bidder must draw his own conclusions. **Construct silt checks and Temporary silt fence at locations directed by the engineer.** The Engineer shall approve all site preparation. The Department will not make direct payment for site preparation.
- D. Installation of Railroad Rails.** See attached summary for site locations and estimated quantities of materials required. Contrary to the attached tables and drawings for drilled railroad rails, Install only 1 Row of RR Rails on 3 foot centers unless otherwise shown on the summary or mentioned in these notes. The depth to rock shown on the location summary is approximate. The embankment failures at these sites are caused by erosion.

NOTE TO ENGINEER AND CONTRACTOR: ABSOLUTELY NO CHANGE IN SCOPE OF WORK OR INCREASE IN QUANTITIES WILL BE ALLOWED ON THIS PROJECT WITHOUT PRIOR WRITTEN APPROVAL FROM THE TEBM (Transportation Engineering Branch Manager) FOR OPERATIONS OR HIS REPRESENTATIVE IN THE PIKEVILLE DISTRICT OFFICE.

THE DEPARTMENT SHALL NOT BE LIABLE FOR PAYMENTS DUE TO ADDITIONAL WORK THAT HAS NOT BEEN AUTHORIZED BY THE AFOREMENTIONED PERSONS.

Install used railroad rail piling in drilled sockets in rock or stable material under the landslides (see figure 1) or the eroded areas (see figure 2) as project location dictates or as directed by the Engineer.

Drill the socket, furnish, and install the railroad rails into holes at slide locations. If the Engineer determines from the sounding obtained at a drilled socket that railroad rail piling cannot be used in that socket, the depth of the socket shall be measured and 50% of the depth shall be paid as "Railroad Rail-Drilled". Drill sockets into solid rock, if possible. The Department will monitor each hole, which will serve as a sounding for the rail to be installed in it. Embed the railroad rail into solid rock no less than one-half the free end length of the rail. (See figure 1 and figure 2). If solid rock cannot be obtained, the Engineer will determine the length of embedment required in other stable foundation. Allow adequate size of the drilled socket to allow free insertion of the railroad rail, but the maximum socket size is 1 foot in diameter.

After each hole is drilled, install railroad rail immediately with the flanges positioned perpendicular to the direction of the landslide or break (see figure 3). Determine the height of rail that is needed to reestablish pavement and shoulder typical section. Cut off excess rail flush with the proposed ground line that is not needed. Use cutoffs elsewhere in the project if possible; unusable cutoffs remain the property of the Contractor.

After railroad rail is installed, immediately backfill the drilled hole with the approved materials. Shovel the backfill material into the hole in small amounts. Avoid bridging between the rail and the sides of the hole. Do not use Auger tailings as backfill material.

SLIDE/FLOOD REPAIR PROJECT NOTES

PIKE COUNTY

FD51-098-1373-000-007, FD51-098-2061-003-008

FD51-098-0611-000-006, FD51-098-1441-001-012

FD51-098-3418-007-011, FD51-098-2059-000-009

FD GR03 0000081

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When double or triple rows are required, stagger the rows to obtain the required spacing. Keep the spacing between the rows of rails as close as is practical; do not space between the rows of more than 2 feet, if possible. See figure 3 (Case II and Case III) for the diagrams showing two (2) or three (3) rows of rails. Select the spacing as per Table 1 for all 130 pound per yard rail or greater. The Department shall approve the selection prior to work being performed.

Crib any exposed portion of railroad rail before placing backfill.

- E. Excavation and Backfill for Railroad rails.** Excavate each embankment/flood repair area to provide a platform for drilling the used railroad rails, if necessary. Excavate for roadway ditches as necessary for slope, shoulder and pavement drainage. Construct embankment behind railroad rails, wall cribbing and on slope, as per Section 206. Construct embankment up to the approximate existing pavement elevation.

Reconstruct the shoulder area with DGA up to the approximate existing elevation and width of the surrounding typical section or to a minimum width of **2 Feet** at each slide location. Do not pond water on the shoulder area or at the shoulder edge. Reconstruct the shoulder before installing guardrail. Asphalt paving will not be part of the contract. If necessary, asphalt paving will be done by state forces at a later date. Excess excavation may be wasted at sites on the right-of-way, **ONLY** if approved by the Engineer. Material may NOT be wasted in flood prone areas or in streams.

If the Engineer deems no suitable sites are available within the right-of-way, the Contractor will be required to waste excess material off the right-of-way at sites obtained by the Contractor at no cost to the Department.

- F. Installation of Wall Cribbing.** Install Cribbing as shown on Figure 1 or Figure 2 as slide location dictates or as directed by the Engineer. Extend wall cribbing 2 feet below the existing ground line. If bedded rock is encountered, install the cribbing to the bedded rock only. If necessary, the Engineer will direct changes to this procedure. Furnish all labor and equipment to deliver and install wall cribbing on the recycled (used) railroad rail piling.

SLIDE/FLOOD REPAIR PROJECT NOTES

PIKE COUNTY

FD51-098-1373-000-007, FD51-098-2061-003-008

FD51-098-0611-000-006, FD51-098-1441-001-012

FD51-098-3418-007-011, FD51-098-2059-000-009

FD GR03 0000081

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- G. Debris Removal on KY 2059.** Remove Debris that is located within the project limits. Dispose of the debris in a manner approved by the Engineer. The Debris may be wasted on the right of way, if a site can be obtained that is acceptable to the Maintenance Engineer and the Resident Engineer. **Do not dispose of the debris in the flood plain or in streams.** If an acceptable site can **not** be obtained on the right of way, waste the debris off the right of way at sites obtained by the Contractor at no cost to the Department.
- H. Final Dressing, Seeding and Protection.** Apply Final Dressing; Class A to all disturbed areas, both on and off the right-of-way. Sow with Seed Mixture No. 1. The Department will NOT make direct payment for final dressing, or seeding and protection.
- I. Installation of Guardrail systems.** Furnish Guardrail systems as per Section 719. See attached summary for proposed guardrail sites. Guardrail locations listed are approximate only. Locations will be field adjusted as directed by the Engineer. Construct radii at entrances and road intersections as per applicable Standard Drawings.
- When installing guardrail the blunt end shall NOT be left exposed where it would be hazardous to the public. When it is not practical to complete the construction of the rail or the permanent end treatments first, the Engineer may require a temporary end of connecting at least 25 feet of rail to the last post, and by slightly flaring, and burying the end of the rail completely into the existing shoulder. If left overnight, a drum with bridge panel shall be placed in advance of the guardrail end and maintained during use. The cost of the temporary end, including the barrier and panel, shall be included in the unit price for "Guardrail, Steel "W" Beam, Single Face".
- J. On-Site Inspection.** Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize themselves with the existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made.
- K. Right-of-Way Limits.** Right-of-Way and easement limits shown on the plans are approximate only. The Contractor shall make every effort to limit his activities to obvious right-of-way and permanent or temporary easements and shall be responsible for encroachments onto private lands.

SLIDE/FLOOD REPAIR PROJECT NOTES

PIKE COUNTY

FD51-098-1373-000-007, FD51-098-2061-003-008

FD51-098-0611-000-006, FD51-098-1441-001-012

FD51-098-3418-007-011, FD51-098-2059-000-009

FD GR03 0000081

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- L. Property Damage.** The Contractor will be responsible for all damage to public and/or private property resulting from his work.
- M. Utility Clearance.** NOTICE: Utility locations are not shown on plans or in the proposal for this project and have not been located by the Department. Locate all underground, above ground and overhead utilities prior to beginning construction. The Contractor shall have the responsibility for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. The Contractor shall be responsible for repairing all utility damage that occurs as a result of his Operations. Working days will not be charged for those days on which work on the controlling item is delayed, as provided in the Specifications.

If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work. Also, comply with applicable sub-sections of Section 107.

IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Railroad Rail-Drilled.** The Department will measure this item in Linear Feet finished in-place length: Laps, cutoffs, excess and waste will not be measured for payment. If the Engineer determines from the sounding obtained at a drilled socket that railroad rail piling cannot be used in that socket, the depth of the socket shall be measured and 50% of the depth shall be paid as "Railroad Rail-Drilled".
- C. Wall Cribbing.** The Department will measure this item in square feet finished in-place area. Laps, cutoffs, excess and waste will not be measured for payment.

SLIDE/FLOOD REPAIR PROJECT NOTES

PIKE COUNTY

FD51-098-1373-000-007, FD51-098-2061-003-008

FD51-098-0611-000-006, FD51-098-1441-001-012

FD51-098-3418-007-011, FD51-098-2059-000-009

FD GR03 0000081

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- D. Excavation and Backfill.** The Department will measure this item in cubic yards. The Department will measure the quantity in the field as per Section 204 (Roadway Excavation) or other accepted methods of measurement as directed by the Engineer. The following items will not be measured directly by the Department: Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste removal, and Disposal, but will be incidental to "Excavation and Backfill" as applicable to each project.
- E. Site Preparation, Clearing and Grubbing, Seeding and Protection, Fertilizer, Temporary Erosion Control, Temporary Pollution Control, Waste Disposal.** The Department will NOT MEASURE for payment these items. They include Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste Disposal, and other items not expressly bid as individual items. These items shall be incidental to the bid item "Excavation and Backfill" as applicable to each project.
- F. Debris Removal.** The Department will measure this item as lump sum.

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Railroad Rail-Drilled.** The Department will pay for the completed and accepted quantities under the bid item of "Railroad Rail-Drilled". The Department will consider payment full compensation for all work required in these notes and elsewhere in the Contract.
- C. Excavation and Backfill.** The Department will pay for the completed and accepted quantities under the bid item: Excavation and Backfill. Payment will be based on quantity measured in the field. The Department will consider payment full compensation for all work required on the project. The following items are incidental to "Excavation and Backfill" and will not be measured directly by the Department. These items include Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste removal and Disposal.

SLIDE/FLOOD REPAIR PROJECT NOTES

PIKE COUNTY

FD51-098-1373-000-007, FD51-098-2061-003-008

FD51-098-0611-000-006, FD51-098-1441-001-012

FD51-098-3418-007-011, FD51-098-2059-000-009

FD GR03 0000081

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- D. Wall Cribbing.** The Department will pay for the completed and accepted quantities under the bid item of "Wall Cribbing". Payment will be based on the quantity installed in the field. The Department will not make separate payment for the hauling of the wall cribbing to the slide site. The Department will consider payment full compensation for all work required on the project.
- E. Site Preparation, Clearing and Grubbing, Seeding and Protection, Fertilizer, Temporary Erosion Control, Temporary Pollution Control, Waste Disposal.** The Department will NOT make direct payment for operations for which bid items do not exist. They include items listed here: Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste removal and Disposal. These activities shall be incidental to the bid item "Excavation and Backfill" as applicable to each project.
- F. Debris Removal.** The Department will pay for the completed and accepted quantity under the bid item of "Debris Removal". Payment will be as lump sum for the quantity removed in the field. The Department will not make separate payment for the disposal of the debris. The disposal shall be considered incidental to the bid item "Debris Removal". The Department will consider payment full compensation for all work required on the project.

TYPICAL SECTION DEPICTING INSTALLATION OF RECYCLED RAILROAD RAIL PLACED IN DRILLED SOCKET FOR LANDSLIDE CORRECTION

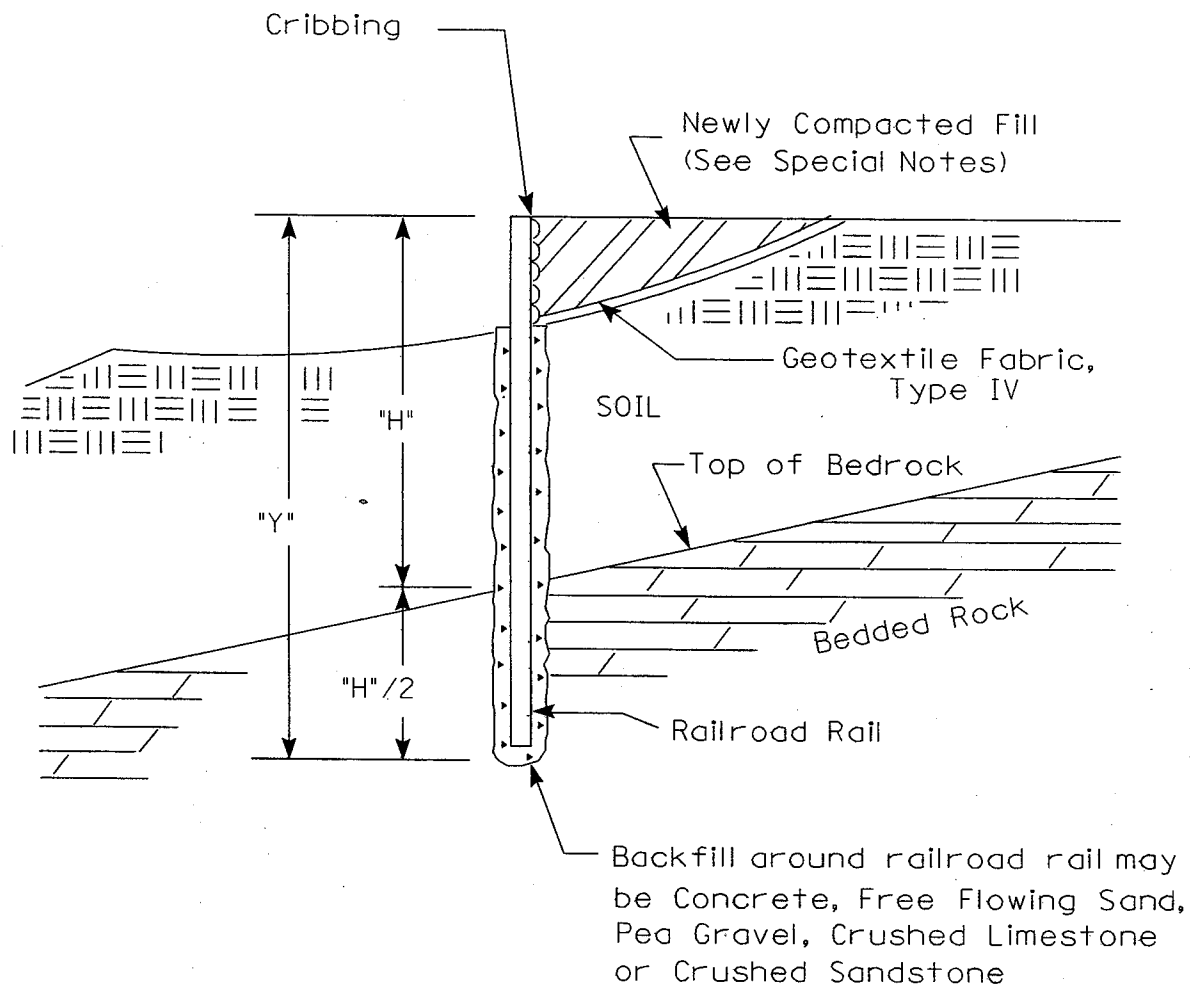
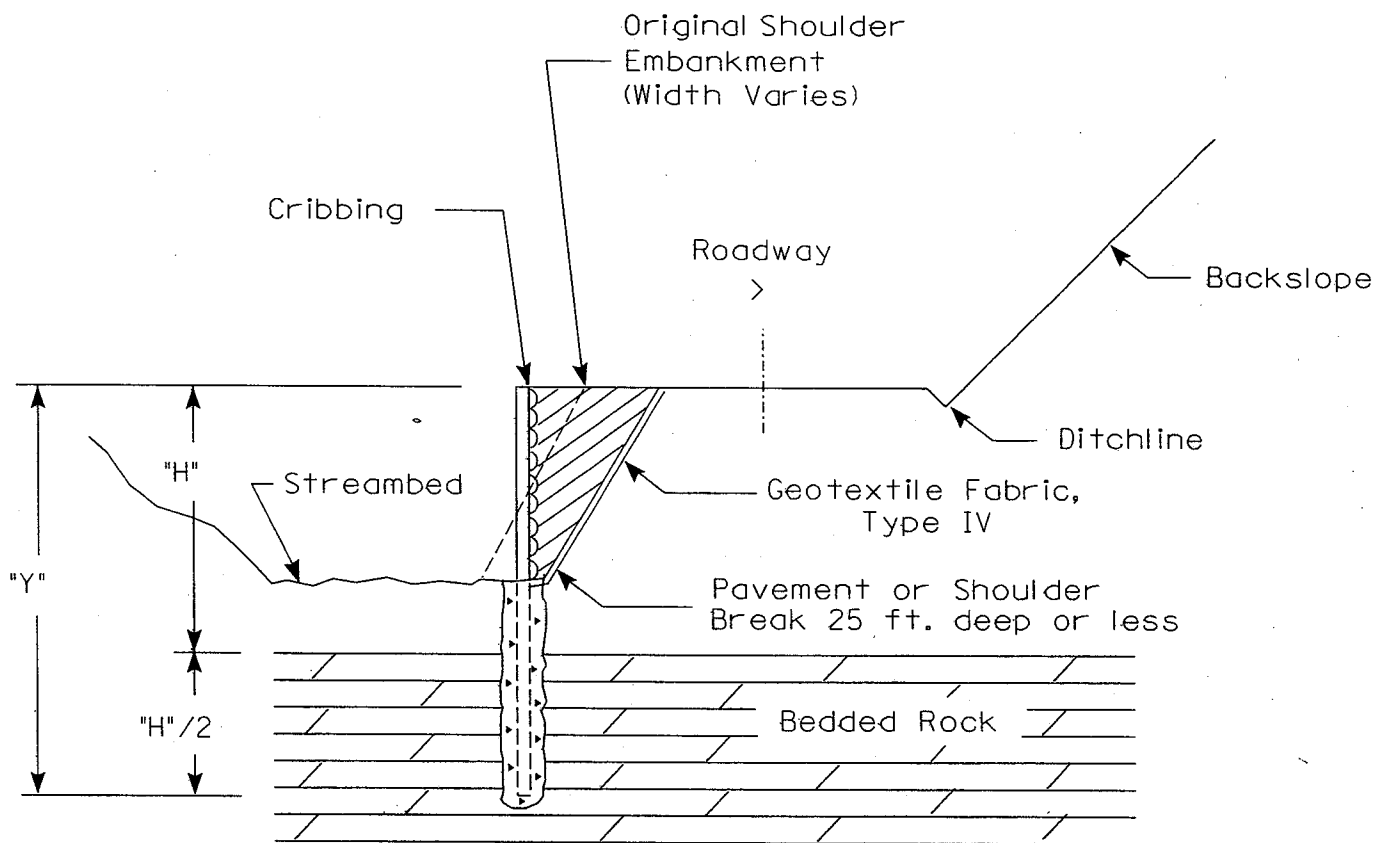


Figure 1

TYPICAL CROSS SECTION OF ROADWAY REPAIRS UTILIZING RECYCLED RAILROAD RAILS IN DRILLED SOCKETS FOR EMBANKMENT EROSION CORRECTION

NOTE:

Spacing from edge to
edge of drilled
socket : 3 ft. max.



NOTE :

"H"/2 Depth of Rail into bedded rock =
1/3 total length where rock is present.

Figure 2

ALTERNATE SCHEMES FOR INSTALLING RAILROAD RAILS IN DRILLED SOCKETS

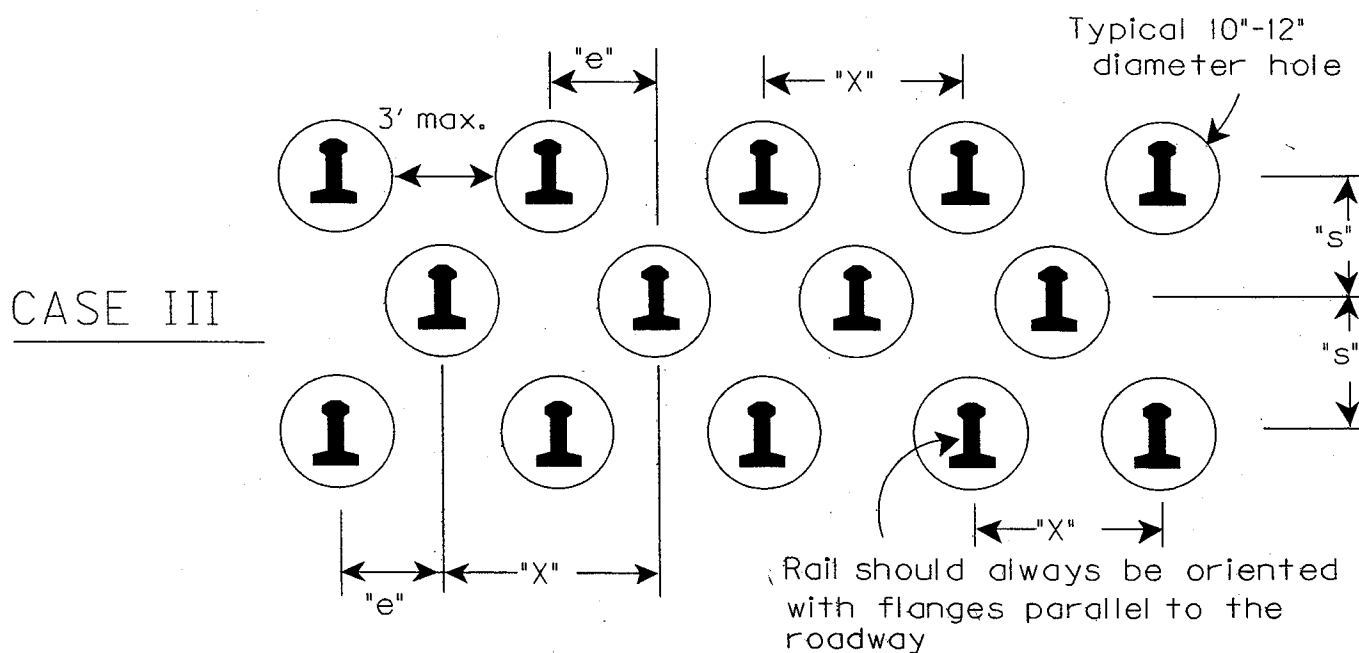
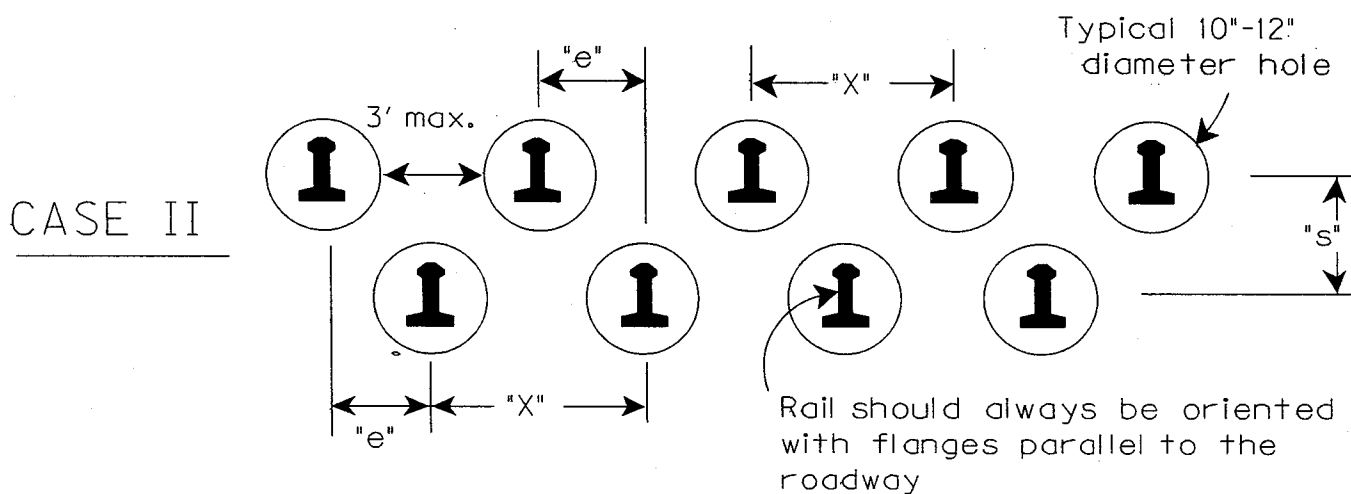
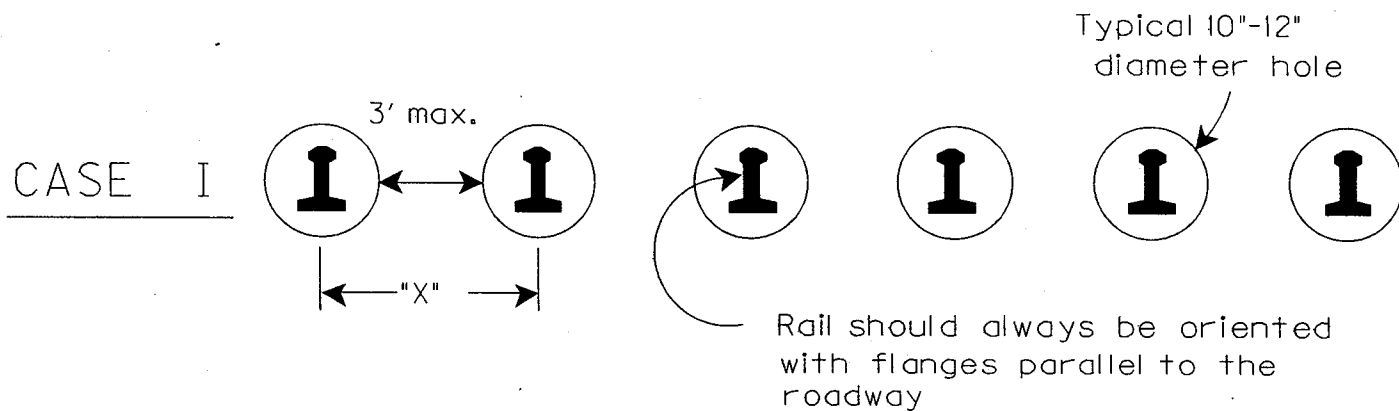


Figure 3

Table I

Factor of Safety = 1.0

Design Chart for 130 lbs/yd to 133 lbs/yd Recycled (Used) Railroad Rails

Refer to Figures 1, 2, & 3 for Dimensions Shown Below

Soil Depth to Bedded Rock 'H' (Feet)	Minimum Embedment into Bedded Rock 'H/2' (Feet)	Total Length of Installed Railroad Rail 'Y' (Feet)	Required Number of Rows	Maximum Spacing Between Rails 'X' (Max. 48") (Inches)	Effective Spacing Between Rows of Rails 'e' (Inches)
8	4	12	1	48	N/A
9	4.5	13.5	1	48	N/A
10	5	15	1	48	N/A
11	5.5	16.5	1	48	N/A
12	6	18	1	48	N/A
13	6.5	19.5	1	48	N/A
14	7	21	1	32	N/A
15	7.5	22.5	2	48	24
16	8	24	2	44	22
17	8.5	25.5	2	36	18
18	9	27	2	28	14
19	9.5	28.5	2	24	12
20	10	30	3	33	11
21	10.5	31.5	3	28.5	9.5
>21	N/A	N/A	N/A	N/A	N/A

NOTE: Soil Depths 'H' greater than 21 feet shall be referred to the Engineer.

PART II

SPECIAL PROVISIONS APPLICABLE TO PROJECT

SPECIAL PROVISION NO.

TITLE

NO SPECIAL PROVISIONS APPLY TO THIS PROJECT

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS
(Copies of each Attached)

1. Schedule of Minimum Wages Established for the Project.
2. Labor and Wage Requirements, applicable to other than Federal-Aid System
Contracts. (Rev. 2-16-95)
3. Executive Branch Code of Ethics.

**TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

**SHEET ONE
LETTING: 03-28-2003**

PROJECT WAGE RATES

PIKE COUNTY, FDGR 03 0000081

Various Routes

Flood Repair

CRAFTS	BASIC HOURLY RATES	FRINGE BENEFIT PAYMENTS COMBINED
Boilermakers	24.65	12.94
Bricklayers.....	20.35	6.30
Stone Mason.....	18.95	6.30
Carpenters	18.85	6.30
Cement Masons	18.70	6.30
Electricians	*22.60	6.97

*When workmen are required to work from bosum chairs, trusses, stacks, tanks, scaffolds, catwalks, radio and T.V. towers, structural steel (open, unprotected, unfloored raw steel), and bridges or similar hazardous locations where workmen are subject to a direct fall, except where using JLG's and bucket trucks up to 75 feet: Add 25% to workman's base rate for 50 to 75 feet, and add 50% to workman's base rate for over 75 feet.

Ironworkers: Structural.....	18.95	6.30
Ironworkers: Reinforcing.....	18.75	6.30
Painters.....	20.55	6.30
Piledrivers.....	18.50	6.30
Plumbers.....	22.52	6.30

Surveyors:

Survey Party Chief (Engineer)..... 12.34

Survey Party Operatives..... 7.21

(Instrumentmen, Rodmen, etc.)

Welders - Receive rate for craft in which welding is incidental.

LABORERS:

General laborer, flagman, steam jenny.

BASE RATE 16.90

FRINGE BENEFITS 6.30

Batch truck dumper, deck hand or scow man.

BASE RATE 17.15

FRINGE BENEFITS 6.30

Power driven tool operator of the following: wagon drill, chain saw, sand blaster, concrete chipper, pavement breaker, vibrator, power wheelbarrow, power buggy, sewer pipe layer, bottom men, dry cement handler, concrete rubber, mason tender.

BASE RATE 17.25

FRINGE BENEFITS 6.30

Two/State

**TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

PROJECT WAGE RATES

SHEET TWO 03-28-2003

PIKE COUNTY, FDGR 03 0000081

LABORERS: (continued)

Asphalt lute and rakerman, side rail setter.	BASE RATE	17.30
	FRINGE BENEFITS	6.30
Gunnite nozzle man, gunnite operator.	BASE RATE	17.40
	FRINGE BENEFITS	6.30
Tunnel laborer (free air).	BASE RATE	17.45
	FRINGE BENEFITS	6.30
Tunnel mucker (free air)	BASE RATE	17.50
	FRINGE BENEFITS	6.30
Hand blade operator	BASE RATE	17.65
	FRINGE BENEFITS	6.30
Tunnel miner, blaster and driller (free air).	BASE RATE	17.85
	FRINGE BENEFITS	6.30
Caisson worker	BASE RATE	18.40
	FRINGE BENEFITS	6.30
Powderman	BASE RATE	18.50
	FRINGE BENEFITS	6.30
Drill operator of percussion type drills which are both powered and propelled by an independent air supply.	BASE RATE	19.70
	FRINGE BENEFITS	6.30

TRUCK DRIVERS AND RELATED CLASSIFICATIONS:

Truck helper and warehouseman.	BASE RATE	17.15
	FRINGE BENEFITS	6.30
Driver, winch truck and A-Frame when used in transporting materials.	BASE RATE	17.25
	FRINGE BENEFITS	6.30
Driver (semi-trailer or pole trailer), driver (dump truck, tandem axle), driver of distributor.	BASE RATE	17.35
	FRINGE BENEFITS	6.30

Two/State

**TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

PROJECT WAGE RATES

SHEET THREE 03-28-2003

PIKE COUNTY, FDGR 03 0000081

TRUCK DRIVERS AND RELATED CLASSIFICATIONS: (continued)

Driver on mixer trucks (all types).	BASE RATE	17.40
	FRINGE BENEFITS	6.30

Truck mechanic	BASE RATE	17.45
	FRINGE BENEFITS	6.30

Driver (3 tons and under), tire changer and truck mechanic helper.	BASE RATE	17.48
	FRINGE BENEFITS	6.30

Driver on pavement breakers.	BASE RATE	17.50
	FRINGE BENEFITS	6.30

Driver (over 3 tons), driver (truck mounted rotary drill).	BASE RATE	17.69
	FRINGE BENEFITS	6.30

Driver, Euclid and other heavy earth moving equipment and Low Boy.	BASE RATE	18.26
	FRINGE BENEFITS	6.30

Greaser on greasing facilities.	BASE RATE	18.35
	FRINGE BENEFITS	6.30

OPERATING ENGINEERS:

Auto patrol, batcher plant, bituminous paver, cable-way, clamshell, concrete mixer (21 cu. ft. or over), concrete pump, crane, crusher plant, derrick, derrick boat, ditching and trenching machine, dragline, dredge engineer, elevator (regardless of ownership when used for hoisting any building material), elevating grader and all types of loaders, hoe-type machine, hoisting engine, locomotive, LeTourneau or carry-all scoop, bulldozer, mechanic, orangepeel bucket, piledriver, power blade, roller (bituminous), roller (earth), roller (rock), scarifier, shovel, tractor shovel, truck crane, well points, winch truck, push dozer, grout pump, high lift, fork lift (regardless of lift height), all types of boom cats, multiple operator, core drill, tow or push boat, A-Frame winch truck, concrete paver, gradeall, hoist, hyster, material pump, pumpcrete, ross carrier, sheep foot, sideboom, throttle-valve man, rotary drill, power generator, mucking machine, rock spreader attached to equipment, scoopmobile, KeCal loader, tower cranes (French, German and other types), hydrocrane, tugger, backfiller guries, self-propelled compactor, self-contained hydraulic percussion drill.

	BASE RATE	20.25
	FRINGE BENEFITS	6.30

**TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

PROJECT WAGE RATES

SHEET FOUR

03-28-2003

PIKE COUNTY, FDGR 03 0000081

OPERATING ENGINEERS: (continued)

All air compressors (200 cu. ft. per min. or greater capacity), bituminous mixer, concrete mixer (under 21 cu. ft.), welding machine, form grader, tractor (50 H.P. and over), bull float, finish machine, outboard motor boat, brakeman, mechanic helper, whirley oiler, tractair and road widening trencher, articulating trucks.

BASE RATE 18.50

FRINGE BENEFITS 6.30

Greaser on grease facilities servicing heavy equipment.

BASE RATE 18.35

FRINGE BENEFITS 6.30

Bituminous distributor, cement gun, conveyor, mud jack, paving joint machine, pump, tamping machine, tractors (under 50 H.P.), vibrator, oiler, air compressors (under 200 cu. ft. per min. capacity), concrete saw, burlap and curing machine, hydro seeder, power form handling equipment, deckhand oiler, hydraulic post driver.

BASE RATE 17.76

FRINGE BENEFITS 6.30

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of the General Laborer except those classified as bona fide apprentices registered with the Kentucky State Apprenticeship Supervisor unless otherwise specified in this schedule of wage rates.

These rates are listed pursuant to the Kentucky Determination No. CR-01-II HWY dated August 6, 2002. Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

**TRANSPORTATION CABINET
DIVISION OF CONTRACT PROCUREMENT
COMPLIANCE SECTION**

PROJECT WAGE RATES

SHEET FIVE 03-28-2003

PIKE COUNTY, FDGR 03 0000081

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

OVERTIME:

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or to the undersigned.

Rick Stansel, Director
Division of Contract Procurement
Frankfort, Kentucky 40622

TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS

LABOR AND WAGE REQUIREMENTS
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

- I. Application
- II. Nondiscrimination of Employees (KRS 344)
- III. Payment of Predetermined Minimum Wages
- IV. Statements and Payrolls

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY
GENERAL ASSEMBLY TO PREVENT
DISCRIMINATION IN EMPLOYMENT
KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy). The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in

any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

III. PAYMENT OF PREDETERMINED
MINIMUM WAGES

1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.

2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

IV. STATEMENTS AND PAYROLLS

1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.

2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.

3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.

9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.

10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

11. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such work-week unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.

12. Payments to the contractor may be suspended or withheld due to failure of the contractor

to pay any laborer or mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (6) provides:

No present or former public servant shall, within six (6) months of following termination of his office or employment, accept employment, compensation or other economic benefit from any person or business that contracts or does business with the state in matters in which he was directly involved during his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved in state government. This subsection shall not prohibit the performance of ministerial functions, including, but not limited to, filing tax returns, filing applications for permits or licenses, or filing incorporation papers.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

PART IV

INSURANCE

The Contractor shall carry the following insurance in addition to the insurance required by law:

- (1) Contractor's Public Liability Insurance not less than \$100,000.00 for damages arising out of bodily injuries to or death to one person. Not less than \$300,000.00 for damages arising out of bodily injuries to or death to two or more persons.
- (2) Contractor's Property Damages Liability Insurance. Not less than \$100,000.00 for all damages arising out of injury or destruction of property in any one accident. Not less than \$300,000.00 for all damages during the policy period.
- (3) Contractor's Protective Public Liability and Property Damage Insurance. The contractor shall furnish evidence with respect to operations performed for him by subcontractors that he carries in his own behalf for the above stipulated amounts.
- (4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
 - a. "policy contains no deductible clauses."
 - b. "policy contains a _____ deductible property
(amount)
damage clause but company will pay claim and collect
the deductible from the insured."
- (5) WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

PART V

STATEMENT OF INCOMPLETED WORK

1. Status of Active Prime Contracts.

Attached

1. STATUS OF ALL INCOMPLETED PRIME CONTRACTS

All active prime contracts must be reported. This includes prime contracts with public and private owners and joint-ventured contracts. The names of the joint venturers must be shown when reporting these projects. A machine or typed listing reporting the status of each contract is acceptable when attached to this report; however, the total amounts on the itemized listing must be reported in the space provided below:

CONTRACT WITH	PROJECT IDENTIFICATION	PRIME CONTRACT AMOUNT	EARNINGS THROUGH LAST APPROVED ESTIMATE	TOTAL AMOUNT OF WORK REMAINING
TOTAL (Attach Summary if not itemized above)		\$	\$	\$

PART VI

BID ITEMS

TRANSPORTATION CABINET

Department of Highways

FRANKFORT, KY 40622

Sheet No: 1

PIKE COUNTY

FD GR 03 0000081

PCN: 03-0176

Letting: 3/28/2003

THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS
SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

Item No.	Code No.	Item	Approximate Quantity	Unit	Unit Price Dollars	Amount Dollars
1	2351	GUARDRAIL-STEEL W BEAM-S FACE	7,347.50	LIN FT	.	.
2	2360	GUARDRAIL TERMINAL SECT NO 1	22.00	EACH	.	.
3	2371	GUARDRAIL END TREATMENT TYPE 7	192.00	EACH	.	.
4	3234	RAILROAD RAILS-DRILLED	69,014.00	LIN FT	.	.
5	3236	CRIBBING	84,118.00	SQ FT	.	.
6	3235	EXCAVATION AND BACKFILL	15,633.00	CU YD	.	.
7	9802	REMOVE DEBRIS	1.00	LP SUM	.	.
8	0001	D G A BASE	189.00	TON	.	.
9	2562	SIGNS	900.00	SQ FT	.	.
10	2650	MAINTAIN AND CONTROL TRAFFIC (KY 2059)	1.00	LP SUM	.	.
11	2650	MAINTAIN AND CONTROL TRAFFIC (KY 2061)	1.00	LP SUM	.	.
12	2650	MAINTAIN AND CONTROL TRAFFIC (KY 1373)	1.00	LP SUM	.	.
13	2650	MAINTAIN AND CONTROL TRAFFIC (KY 611)	1.00	LP SUM	.	.
14	2650	MAINTAIN AND CONTROL TRAFFIC (KY 3418)	1.00	LP SUM	.	.
15	2650	MAINTAIN AND CONTROL TRAFFIC (KY 1441)	1.00	LP SUM	.	.
16	2726	STAKING (KY 2059)	1.00	LP SUM	.	.
17	2726	STAKING (KY 2061)	1.00	LP SUM	.	.
18	2726	STAKING (KY 1373)	1.00	LP SUM	.	.
19	2726	STAKING (KY 611)	1.00	LP SUM	.	.
20	2726	STAKING (KY 3418)	1.00	LP SUM	.	.

TRANSPORTATION CABINET

Department of Highways

FRANKFORT, KY 40622

Sheet No: 2

PIKE COUNTY

FD GR 03 0000081

PCN: 03-0176

Letting: 3/28/2003

THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS
SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

Item No.	Code No.	Item	Approximate Quantity	Unit	Unit Price Dollars	Amount Dollars
21	2726	STAKING (KY 1441)	1.00	LP SUM	.	.
22	2569	DEMOBILIZATION	1.00	LP SUM	.	.
23		TOTAL BID			\$.

PART VII

CERTIFICATIONS

- | | | |
|----|---|----------|
| 1. | Provisions Relative to Senate Bill 258 (1994) | Attached |
| 2. | Non-Collusion Certification | Attached |
| 3. | Certification of Bid Proposal | Attached |

PROVISIONS RELATIVE TO SENATE BILL 258 (1994)

During the performance of the contract, the contractor agrees to comply with applicable provisions of:

1. KRS 136 Corporation and Utility Taxes
2. KRS 139 Sale and Use Taxes
3. KRS 141 Income Taxes
4. KRS 337 Wages and Hours
5. KRS 338 Occupational Safety and Health of Employees
6. KRS 341 Unemployment Compensation
7. KRS 342 Workers Compensation

Any final determinations of a violation by the contractor within the previous five (5) years pursuant to the applicable statutes above are revealed as follows:

NON-COLLUSION CERTIFICATION

COMMONWEALTH OF KENTUCKY
COUNTY _____
PROJECT NO. _____

I, _____, _____, under
(Name of officer signing certification) (Title)

penalty of perjury under the laws of the United States, do hereby certify that

(Insert name of Individual, Joint Venture, Co-partnership, or Corporation submitting bid)

its agent, officers or employees have not directly or indirectly entered into any
agreement, participated in any collusion, or otherwise taken action in restraint of free
competitive bidding in connection with this proposal.

(Signature)

(Title)

REVISED: 8-23-89

NON-COLLUSION CERTIFICATION

COMMONWEALTH OF KENTUCKY
COUNTY _____
PROJECT NO. _____

I, _____, _____, under
(Name of officer signing certification) (Title)

penalty or perjury under the laws of the United States, do hereby certify that

(Insert name of Individual, Joint Venture, Co-partnership, or Corporation submitting bid)

its agent, officers or employees have not directly or indirectly entered into any
agreement, participated in any collusion, or otherwise taken action in restraint of free
competitive bidding in connection with this proposal.

(Signature)

(Title)

REVISED: 8-23-89

CERTIFICATION OF BID PROPOSAL

We (I) propose to furnish all labor, equipment and materials necessary to construct and/or improve the subject project in accordance with the plans, the Transportation Cabinet's Standard Specifications for Road and Bridge Construction, current edition, special provisions, notes applicable to the project as indicated herein and all addenda issued on this project subsequent to purchase of proposal.

We (I) attach a bid proposal guaranty as provided in the special provisions in an amount not less than 5% of the total bid. We agree to execute a contract in accordance with this bid proposal within 15 calendar days after the receipt of the notice of award for the project.

We (I) have examined the site of proposed work, project plans, specifications, special provisions, and notes applicable to the project referred to herein. We understand that the quantities shown herein are estimated quantities subject to increase or decrease as provided in the specifications.

Name of Contracting Firm

BY:

Authorized Agent Title

Address City State Zip Code

Telephone Number

When two or more organizations bid as a joint venture, enter names of each organization and an authorized agent for each organization must sign above.